

# Exports from Manufacturing Establishments

## 1997

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### GENERAL DESCRIPTION

This report, "Exports from Manufacturing Establishments," includes estimates for the value of manufactured exports and related employment. Export estimates include both "direct" exports (exports manufactured in the U.S. and consumed in foreign markets) and "indirect" exports (intermediate goods and services required to manufacture exported goods). The report includes estimates for state and national totals for direct and indirect exports and related employment for the manufacturing sector. For manufactured goods, the report includes state estimates for each 3-digit NAICS (North American Industry Classification System) subsector (e.g., NAICS 311, "Food."). In addition, indirect employment associated with manufactured exports is provided for each major economic sector. The data in this report also include estimates of employment associated with transporting manufactured goods for export from the plant of manufacture to the port of export.

It should be emphasized that the employment estimates in this report relate only to the export of manufactured goods. Direct exports of nonmanufactured goods (e.g., unprocessed minerals or agricultural items) and services are excluded from this report, as are any indirect effects associated with exporting nonmanufactured goods and services. Therefore, these export estimates do not measure the full employment effect of all U.S. exports.

### GENERAL METHODOLOGY

The estimates in this report rely upon 3 major information sources: (1) the Census Bureau's 1997 Economic Census, Manufacturing Sector; (2) detailed data from the Census Bureau's 1997 edition of U.S. Exports of Merchandise; and (3) the Bureau of Economic Analysis' Input-Output

(I/O) Accounts of the U.S. Economy for 1992. To provide a means for using these different sources on a comparable basis required substantial manipulations and conversions. For example, each of these sources uses a different classification scheme (NAICS for the census of manufactures, the harmonized system for the exports of merchandise, and the SIC for I/O accounts). The I/O accounts originate from 1992 data. Thus, a host of conversions and adjustments were used. The user should bear in mind that each of these conversions and adjustments is imperfect, and a potential source of error in the figures presented in this report.

A short description of the methodology is as follows: Exports as reported by manufacturers on the 1997 Economic Census, Manufacturing Sector were allocated to the industry and state of that manufacturer. These export totals then were compared to the U.S. Exports of Merchandise, as reported by exporting firms. Because many manufacturers do not know whether or not their products are exported, the export data from the 1997 Economic Census, Manufacturing Sector were adjusted to the totals from the U.S. Exports of Merchandise, with differences allocated to industries and states. These data then represented the "direct" exports of manufactured goods, by industry and by state. Employment-to-shipment ratios from the 1997 Economic Census, Manufacturing Sector were used to estimate employment for each state-industry combination, resulting in employment attributable to direct exports.

Deriving indirect exports required use of the I/O accounts. This data source provides a means to estimate resources needed to produce a unit of output. Feeding the direct exports estimated above into this model yields estimates for the resources (both goods and services) required to produce these exports.

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These data became the "indirect" exports required to support direct exports. Again, employment-to-shipment ratios were used to compute employment for the manufacturing industries. For nonmanufacturing industries, a different I/O table was used to estimate employment in these industries.

A more thorough description of the methodology used to construct these estimates is included below.

#### RELATIONSHIP TO CENSUS BUREAU'S SERIES ON ORIGIN OF MOVEMENT OF U.S. EXPORTS BY STATE

Each month the Census Bureau issues a report on the Origin of Movement of U.S. Exports by State in its "Summary of U.S. Export and Import Merchandise Trade (FT900)" report. The data in this series include both manufactured and nonmanufactured products exports. Data are shown for the state where the merchandise began its export journey as reported by the exporter on the export declaration document filed with the U.S. Department of Commerce at the port of export. This series provides data based on the "origin" of the commodity movement into international trade. That "origin" may be the location of the manufacturer, a warehouse, an intermediary who has arranged the sale, an assembly or packaging point, or the port of export. Thus these data differ from the estimates in this publication, which solely reflect the physical location of the manufacturer.

#### HISTORICAL INFORMATION

This report began in 1960 and measured initially only direct exports and direct export-related employment. In 1976 the program was expanded to encompass analytically-derived estimates for supporting exports and related employment. Earlier published results from this program are available for 1960, 1963, 1966, 1969, 1971, 1972, 1976, 1977, 1980, 1981, and 1983-1991. Users should bear in mind, though, that methodological changes can affect the

comparability of these data when making year-to-year comparisons. This caveat is particularly true with respect to the 1997 report and how it relates to previously published years.

#### DETAILED DESCRIPTION OF CENSUS METHODS AND ESTIMATING PROCEDURES

The sections that follow describe the methodology used to develop the estimates of the effect of manufactured exports at the national level and by state.

#### DIRECTLY RELATED EXPORTS

Manufacturers reporting in the census of manufacture were requested to "Report the value of products shipped for export. Include direct exports and products shipped to exporters or other wholesalers for export. Also include the value of products sold to the U.S. Government to be shipped to foreign governments. Do not include products shipped for further manufacture, assembly, or fabrication in the United States." Such directly reported exports underestimate the true value of all exports because many respondents do not know the final destination of the products produced in their plants. This includes cases where the product was actually exported by an independent exporting firm or where the actual shipments of the products were made from company-operated warehouses or other distribution points which did not allocate the export sales back to the individual manufacturing establishments.

Estimated value of exports. In order to provide a more accurate measure of the overall importance of exports industrially and geographically, the directly reported values of exports from the economic census, manufacturing sector were adjusted to include estimates for the unreported exports, including exports of manufactured products by wholesalers, exporters, etc.

The values of total exports of manufactured products are from official export data compiled by the Foreign Trade Division (FTD) of the Census Bureau based on Shippers' Export Declarations. Because these data measure only domestically manufactured exports, re-exports are not included in the estimates. Merchandise exports were collected and compiled in accordance with the harmonized system of commodity classifications found in Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States. These classifications were converted into a structure related to the origin of production called the North American Industry Classification System (NAICS)-based export product classifications. The merchandise export data exclude exports from Puerto Rico and the Virgin Islands of the United States, which corresponds to their omission from the economic census for manufacturers.

The FTD merchandise export data are collected on an individual commodity transaction basis, while the export data in the economic census are collected for an entire manufacturing establishment, without regard to the commodities that establishment shipped. Thus, the economic census exports reflect exports by an industry, rather than for each of the commodities in that industry. To reflect this difference, the FTD merchandise export data were converted to an industry basis using the 1997 Economic Census data for manufacturers, based upon the distribution of commodities shipped by their industry of manufacture.

The export data are collected at port of export on a free alongside ship (f.a.s.) basis; thus they include freight and wholesale margins. To make the export data comparable to the data collected in the economic census, the margins were subtracted to derive a free on board (f.o.b.) plant value. Six-digit I/O commodity margin rates for the 1992 benchmark I/O tables were converted to industry margin rates and then applied

to the merchandise exports on an industry basis to derive the f.o.b. plant value of exports by industry.

The differences between these national estimates of export shipments and reported export shipments of manufacturing establishments were then allocated to geographic areas (see below) and added to the reported data to develop estimates of total f.o.b. value of exports of manufacturing establishments by state.

Allocation of unreported value of exports. Differences between the directly reported exports and the national export estimates f.o.b. plant have been allocated at four-digit NAICS levels to states. The estimating procedure assumes that export shipments not reported by manufacturing establishments are directly related to the geographic distribution of the total value of shipments of the industry and the export shipments reported for specific States. Specifically, the following formula was used to allocate the national difference for each industry to each state.

$$(N - S) \left[ \left( \frac{S}{N} \right) \left( \frac{E_s}{S} \right) + \left( 1 - \frac{S}{N} \right) \left( \frac{TVS_s}{TVS} \right) \right]$$

where,

N is the national export estimate for this industry,

S is the national total of directly reported exports for this industry,

$E_s$  is the value of directly reported exports for this industry in this state,

TVS is the national total value of shipments for this industry, and

$TVS_s$  is the total value of shipments for this industry in this state.

This formula results in the proportion of the total value of industry shipments accounted for by this state being weighted more heavily when the difference between directly reported exports and the national export estimate increases. When the difference between directly reported and estimated exports decreases (or vanishes), the proportion

of directly reported exports accounted for by the state is weighted more heavily. There are no measures available regarding the possible range of error associated with this estimating technique. To the extent that directly reported exports are a large proportion of the total exports, the geographic distribution of the total will be reliable. However, where the directly reported exports are a relatively small portion of total exports, the geographic distribution may be subject to considerable error if the basic assumption is not valid for a specific industry.

Estimating direct export-related employment. The economic census collected total value of shipments and total employment for each establishment. Employment related to direct exports was calculated by multiplying the total employment of each industry in each state by the ratio of the estimated total f.o.b. value of exports for that industry in that state to total shipments for that industry in that state. As with the estimates of exports, there are no measures available regarding the possible range of error associated with this estimating technique.

#### INDIRECT REQUIREMENTS SUPPORTING MANUFACTURED EXPORTS

Definition of indirect requirements. Indirect requirements refer to all of the inputs purchased by the manufacturing establishments to produce the product being exported, plus the inputs needed by these suppliers, etc. As an example, the export value of chemicals in 1997 amounted to \$57.4 billion as goods left the manufacturing plant. To produce the \$57.4 billion of chemicals, it was necessary for these plants to purchase petroleum and coal products from other plants, various other materials, containers for shipping, electrical energy from utility firms, oil and lubricants for maintenance, a variety of business and professional services, etc.

Producers of the various inputs and services which are sold to chemical producers must also purchase inputs and various services from farms, mines, factories, utilities, transportation, etc.

These secondary suppliers must in turn, purchase inputs from their suppliers. At the aggregate level, this lengthy chain of transactions leading to the production of chemicals is referred to as the indirect requirements for chemicals (or for any other final products). Total indirect requirements are derived by applying BEA's regional (I/O) domestic total requirements tables to the products for which a solution is sought.

Estimating domestic indirect requirements for manufactured exports. The domestic indirect requirements for manufactured exports were estimated by using the f.o.b. plant values of exports which were derived above, with tables of regional domestic total requirements multipliers supplied by the Regional Economic Analysis Division of the BEA. National requirements were calculated using the national table. These tables were derived from the 1992 I/O tables and exclude requirements from outside the region covered by the table. Hence, the national table requirements excludes requirements from foreign sources. Each state table excludes requirements from sources outside the state.

The estimate of domestic output required for the value of manufactured exports was derived using the following seven-step procedure:

1. Exports by detailed NAICS manufacturing industry were converted to an SIC basis.
2. The SIC-based industry estimates were deflated to 1992 prices using industry price indexes supplied the Industry Economics Division of the BEA.
3. The deflated exports were multiplied by the regional total requirements multipliers to obtain domestic (or state) output required (in 1992 prices).
4. Regional output was reflated to current-year prices using the industry price indexes.

5. Indirect domestic output required was derived as regional output less exports.
6. The detailed SIC-based indirect requirements were converted to NAICS manufacturing industry requirements.
7. The difference between the sum of state indirect manufacturing requirements and the national manufacturing requirements was allocated to states.

Indirect requirements of manufacturing industries by state. State requirements were calculated in two phases. In the first phase, intrastate manufactured requirements were calculated for each state using state indirect requirements tables. These tables were derived from the 1992 I/O table and exclude requirements from outside the state. The estimate of intrastate output required for the value of manufactured exports was derived using the same first six steps of the seven-step procedure used for the national estimates. The intrastate requirement from an industry is the value of shipments from this industry used as inputs to this and other industries during the production of exports or inputs to the production of exports.

In the second phase, the difference between the sum of the state requirements and the national requirements from manufacturing for each industry was allocated to states. This difference is the interstate requirement from each industry. The interstate requirement from each industry is the value of shipments from this industry that are shipped across state lines for use by this and other industries in the production of exports or inputs to the production of exports.

The national total interstate requirement from each manufacturing industry was allocated to states on the basis of the distribution of total shipments by that industry across states. For example, the 1997 Economic Census, Manufacturing Sector indicates that 4 percent of the value of all shipments of the Textile Mills industry (NAICS 313) in

the U.S. in 1997 occurred in New York State (\$2.3 billion of a U.S. total of \$58.8 billion). Therefore, 4 percent of the national interstate requirement from the Textile Mills industry was allocated to New York State. In a few cases, this procedure resulted in the sum of estimated exports from an industry and total requirements from that industry in a state exceeding the total value of shipments from that industry in that state. In these few cases, the interstate requirement from that industry allocated to that state was reduced and the amount of the reduction was allocated to other states on the basis of their shares of total shipments from the remaining states.

When the total value of indirect requirements from each manufacturing industry in each state was determined, employment associated with those values was calculated. The ratio of total employment to total value of shipments for each manufacturing industry in each state was calculated using figures from the 1997 Economic Census, Manufacturing Sector. The value of total indirect requirements from each industry in each state was multiplied by the ratio of employment to value of shipments for that industry in that state to obtain an estimate of the total employment associated with providing those indirect requirements. Total indirect manufacturing employment in each state is obtained by summing the employment in each manufacturing industry.

Employment associated with indirect requirements of nonmanufacturing industries. The employment in nonmanufacturing industries associated with providing indirect requirements for the production of manufactured exports or of inputs used to produce manufactured exports was estimated by using regional total requirements employment multipliers supplied by BEA and the direct export estimates discussed above. These employment multipliers for a given industry in a region show the number of full- and part-time jobs that regional industries provide, both directly and indirectly, in order for the given industry to deliver \$1 million of output to final demand. Estimates of employment associated with indirect

requirements were obtained in three steps:

1. Exports by detailed NAICS manufacturing industry were converted to an SIC basis.
2. The SIC-based industry estimates were deflated to 1992 prices using industry price indexes supplied by the Industry Economics Division of the BEA.
3. The deflated exports were multiplied by the regional employment requirements multipliers to obtain employment in nonmanufacturing industries required to provide inputs to the production of the exports or other inputs to the production of the exports.

As was done for indirect requirements of manufacturing industries, these calculations were made at the national level with national exports and national multipliers, and for each state with exports from that state and multipliers for that state. The use of both national level and state level multipliers results in a difference between the sum of the state employment for each industry and national employment for that industry. We used the national export employment as the control for each industry and allocated this difference proportionally across the states using the initial state export employment data. On an unadjusted basis, if a state accounted for 10 percent of the export employment, it received 10 percent of the adjustment.

Estimating export-related employment for auxiliaries. Under the NAICS, establishments at manufacturers' auxiliaries are classified in nonmanufacturing industries. Under the SIC, these establishments are classified in manufacturing industries. Since export-related employment in manufacturing industries was calculated using employment-to-shipments ratios for NAICS manufacturing industries, employment at these establishments is not included in those results. Since indirect requirements-related employment in nonmanufacturing industries was calculated using employment multipliers for SIC

industries, employment at these establishments is not included in those results. When BEA's regional multipliers are revised to NAICS-based industries, this anomaly will be eliminated. Until then, we need to calculate indirect requirement related employment at manufacturers' auxiliaries separately and add that result to our business services employment (these auxiliaries are included in business services under NAICS).

Indirect requirements-related employment at manufacturers' auxiliaries was estimated by computing the ratio of manufacturing exports (both direct and indirect) to manufacturers' total value of shipments. This ratio then was applied to the total employment associated with manufacturing auxiliaries for each state, resulting in state figures for auxiliary employment. This figure then was

added to the "Business" portion of nonmanufacturing employment attributable to manufacturing exports.

Plant-to-port indirect requirements employment. The port value of manufactured exports in 1997 was approximately \$571 billion, and it was estimated that the f.o.b. plant value of these goods was \$503 billion. The difference of \$68 billion represents transportation costs of moving these goods, mainly to seaports but also to airports, or to rail or truck border crossing points and the margin, or markup of exporters, which is a component of wholesale trade. Relying on the same breakdown used in earlier export calculations (80 percent/ 20 percent), the \$68 billion difference was allocated \$14 billion to transportation and \$54 billion to wholesale trade.

Data from BEA on "gross domestic product by industry" were used to

calculate ratios of full- and part-time employees to gross domestic product by industry for "Transportation" and "Wholesale Trade" in 1997. The amount allocated to each industry was multiplied by that industry's ratio to obtain an estimate of full- and part-time employment related to plant-to-port indirect requirements of that industry. These national totals were allocated to states using the distribution of 1997 employment across states for transportation and for wholesale trade in the County Business Patterns data. The estimate of transportation employment was added to the previously calculated value of indirect requirements-related employment of "Transportation, communications, and utilities." The estimate of wholesale trade employment was added to the previously calculated value of indirect requirements-related employment of "Trade."

Table 1. Employment Related to Manufactured Exports by Major Economic Sector for States: 1997

State	Employment related to manufactured exports							Civilian employment	Private sector employment	Manufactured export employment as a percent of	
	Total	Manufacturing employment 1/	Non-manufacturing employment 2/	Business	Transportation	Trade	Other 3/			Civilian employment	Private sector employment 4/
United States.....	7,675.9	3,343.9	4,332.0	570.7	653.1	1,383.5	1,724.7	127,024.0	107,126.4	6.0	7.2
Alabama.....	115.0	52.3	62.7	5.9	11.0	20.6	25.2	1,932.3	1,586.1	6.0	7.3
Alaska.....	4.4	1.3	3.1	0.1	1.3	0.9	0.8	271.7	198.5	1.6	2.2
Arizona.....	111.3	40.9	70.4	9.4	11.0	18.9	31.1	2,055.6	1,727.4	5.4	6.4
Arkansas.....	61.7	26.7	35.0	2.5	6.3	9.6	16.6	1,159.0	975.6	5.3	6.3
California.....	1,148.0	499.0	649.0	85.7	79.6	217.6	266.1	13,809.7	11,669.0	8.3	9.8
Colorado.....	117.4	36.1	81.3	9.5	9.8	25.0	37.0	2,041.5	1,725.9	5.7	6.8
Connecticut.....	105.5	63.1	42.4	9.3	5.5	14.5	13.1	1,638.6	1,412.9	6.4	7.5
Delaware.....	13.2	4.4	8.8	4.2	1.0	2.1	1.5	393.9	340.7	3.3	3.9
District of Columbia.....	1.1	-	1.1	0.2	0.3	0.6	-	622.4	389.2	0.2	0.3
Florida.....	160.8	61.1	99.7	10.3	19.7	42.2	27.5	6,611.4	5,669.2	2.4	2.8
Georgia.....	185.5	72.7	112.8	16.8	18.4	37.2	40.4	3,716.4	3,139.1	5.0	5.9
Hawaii.....	6.0	1.2	4.8	0.2	1.9	2.2	0.5	550.6	438.9	1.1	1.4
Idaho.....	74.9	17.5	57.4	5.4	5.5	22.0	24.5	553.9	453.9	13.5	16.5
Illinois.....	360.4	164.5	195.9	28.5	33.2	65.2	69.0	5,886.1	5,077.8	6.1	7.1
Indiana.....	240.6	124.2	116.4	12.1	20.9	35.2	48.2	2,921.6	2,529.6	8.2	9.5
Iowa.....	107.4	43.7	63.7	4.7	9.1	18.9	31.0	1,515.0	1,280.4	7.1	8.4
Kansas.....	68.1	25.1	43.0	2.8	4.6	11.1	24.5	1,341.2	1,105.7	5.1	6.2
Kentucky.....	145.4	58.3	87.1	7.4	13.7	26.4	39.6	1,765.2	1,474.3	8.2	9.9
Louisiana.....	81.8	22.8	59.0	4.1	12.1	16.5	26.3	1,906.9	1,542.7	4.3	5.3
Maine.....	23.8	12.1	11.7	0.9	2.0	4.0	4.8	570.7	477.7	4.2	5.0
Maryland.....	58.9	24.7	34.2	5.2	5.8	15.0	8.2	2,340.1	1,919.3	2.5	3.1
Massachusetts.....	189.9	103.6	86.3	14.2	11.6	30.5	30.0	3,163.2	2,758.6	6.0	6.9
Michigan.....	372.9	191.0	181.9	37.8	26.7	54.9	62.5	4,570.2	3,922.8	8.2	9.5
Minnesota.....	156.1	66.2	89.9	15.6	11.7	28.9	33.7	2,622.8	2,243.2	6.0	7.0
Mississippi.....	63.8	24.6	39.2	2.2	6.3	9.2	21.5	1,138.1	919.1	5.6	6.9
Missouri.....	167.0	75.6	91.4	10.8	14.9	29.1	36.6	2,762.4	2,349.6	6.0	7.1
Montana.....	5.9	2.0	3.9	0.1	0.8	2.0	1.0	402.9	325.5	1.5	1.8
Nebraska.....	56.0	16.0	40.0	2.4	4.0	9.7	23.9	945.3	793.1	5.9	7.1
Nevada.....	11.0	4.3	6.7	0.4	1.8	3.6	0.9	906.7	800.2	1.2	1.4
New Hampshire.....	52.9	25.4	27.5	3.8	3.1	8.5	12.1	582.2	503.4	9.1	10.5
New Jersey.....	152.7	59.4	93.3	23.2	15.2	37.5	17.4	3,781.6	3,211.3	4.0	4.8
New Mexico.....	97.1	11.9	85.2	11.5	9.9	15.9	47.9	737.5	560.5	13.2	17.3
New York.....	309.6	155.2	154.4	24.5	26.7	64.4	38.8	8,273.1	6,866.2	3.7	4.5
North Carolina.....	285.6	132.9	152.7	19.9	23.2	49.1	60.5	3,785.2	3,208.9	7.5	8.9
North Dakota.....	6.8	2.1	4.7	0.1	0.8	2.5	1.3	360.1	289.3	1.9	2.4
Ohio.....	451.5	223.7	227.8	34.2	37.8	72.6	83.2	5,524.4	4,766.5	8.2	9.5
Oklahoma.....	63.9	30.1	33.8	2.7	5.1	12.3	13.7	1,461.5	1,185.3	4.4	5.4
Oregon.....	128.8	46.0	82.8	10.1	10.4	24.5	37.8	1,605.4	1,355.9	8.0	9.5
Pennsylvania.....	270.4	136.9	133.5	23.3	25.1	45.2	39.9	5,519.5	4,807.7	4.9	5.6
Rhode Island.....	21.7	13.8	7.9	1.2	1.0	3.2	2.5	457.0	393.8	4.8	5.5
South Carolina.....	136.0	68.8	67.2	7.8	12.0	17.1	30.3	1,766.2	1,467.3	7.7	9.3
South Dakota.....	23.0	8.9	14.1	1.0	1.4	6.2	5.5	396.9	326.4	5.8	7.0
Tennessee.....	156.2	79.0	77.2	7.8	13.8	27.7	27.9	2,667.0	2,286.7	5.9	6.8
Texas.....	611.6	196.2	415.4	49.4	62.0	114.1	189.9	9,004.0	7,520.7	6.8	8.1
Utah.....	61.4	20.3	41.1	3.9	5.7	14.5	17.0	1,020.8	848.5	6.0	7.2
Vermont.....	22.2	8.1	14.1	1.4	1.7	3.6	7.4	291.2	245.5	7.6	9.0
Virginia.....	141.9	58.6	83.3	8.6	13.1	22.3	39.3	3,312.8	2,716.2	4.3	5.2
Washington.....	254.5	129.3	125.2	15.1	18.3	34.7	57.1	2,631.2	2,173.2	9.7	11.7
West Virginia.....	20.7	8.9	11.8	0.7	2.5	4.3	4.3	727.8	588.7	2.8	3.5
Wisconsin.....	191.8	92.8	99.0	11.7	13.5	29.0	44.8	2,760.7	2,374.0	6.9	8.1
Wyoming.....	1.5	0.3	1.2	0.1	0.3	0.7	0.1	242.5	184.4	0.6	0.8

- Represents zero.

1/Manufacturing employment is computed using 1997 Economic Census, Manufacturing Sector estimates for shipments and employment, and state-based input-output tables from the Bureau of Economic Analysis.

2/Nonmanufacturing employment is computed based upon state-based input-output tables from the Bureau of Economic Analysis.

3/"Other" employment related to manufactured exports includes estimates for forestry, agriculture, and business services.

4/Civilian employment represents state data from the "State and Area Employment, Hours, and Earnings" series from the Bureau of Labor Statistics, plus the difference between the total civilian labor force employment and the sum of private nonagricultural wage and salary workers from the Bureau of Labor Statistics series, "Geographic Profile of Employment and Unemployment," 1997 (Bulletin 2515).

5/Private sector employment represents the figure for civilian employment (see footnote 3) less the total number of government workers from the Bureau of Labor Statistics "State and Area Employment, Hours, and Earnings" series.

Note: Export related employment data shown do not include jobs involved in the exports of nonmanufactured goods, such as farm products, minerals, and services sold to foreign buyers. Indirect exports exclude imported items. Detail may not add to totals because of independent rounding.

Table 2. Manufacturing Industries, Shipments and Employment Related to Manufactured Exports for States: 1997

State	Value of all manufacturers' shipments (million dollars) 1/ (thousands)	All manufacturing employment 1/ (thousands)	Direct exports 2/ (million dollars)	Employment related to direct exports (thousands)	Export supporting shipments (million dollars)	Employment related to supporting shipments (thousands)	Total export related shipments (million dollars)	Total export related manufacturing employment (thousands)	Export related as percent of all manufacturers	Total nonmanufacturing supporting employment (thousands)	Total of all employment related to manufactured exports (thousands)
								Shipments	Employment		
United States.....	3,842,061.6	16,887.9	502,881.3	2,027.8	280,529.2	1,316.3	783,410.5	3,343.9	20.4	19.8	4,332.0
Alabama.....	67,970.1	352.6	7,237.5	32.1	4,625.9	20.2	11,863.4	52.3	17.5	14.8	62.7
Alaska.....	3,305.0	10.8	374.3	1.1	51.0	0.1	425.3	1.3	12.9	11.9	3.1
Arizona.....	43,030.3	193.6	6,849.6	26.5	3,061.3	14.4	9,910.9	40.9	23.0	21.1	70.4
Arkansas.....	45,186.0	230.2	4,232.7	17.9	2,102.1	8.9	6,334.8	26.7	14.0	11.6	35.0
California.....	379,612.4	1,809.7	67,843.8	288.8	40,106.7	210.1	107,950.5	499.0	28.4	27.6	649.0
Colorado.....	40,012.8	173.1	5,542.5	22.4	2,907.8	13.7	8,450.3	36.1	21.1	20.9	81.3
Connecticut.....	46,938.2	252.3	8,164.1	40.4	4,181.5	22.8	12,345.7	63.1	26.3	25.0	42.4
Delaware.....	13,397.3	41.1	911.0	3.4	318.9	1.0	1,229.9	4.4	9.2	10.6	8.8
District of Columbia.....	320.2	2.9	1.2	-	-	-	1.3	-	0.4	0.4	1.1
Florida.....	77,477.5	433.1	9,991.2	47.2	2,706.8	13.9	12,698.1	61.1	16.4	14.1	99.7
Georgia.....	124,526.8	533.8	13,173.1	46.5	5,626.5	26.2	18,799.6	72.7	15.1	13.6	112.8
Hawaii.....	3,192.5	15.1	288.8	1.1	35.2	0.1	324.0	1.2	10.1	8.1	4.8
Idaho.....	16,952.9	66.2	4,600.7	9.6	1,677.5	7.9	6,278.1	17.5	37.0	26.4	57.4
Illinois.....	200,020.0	887.4	23,697.8	93.7	15,073.1	70.8	38,770.9	164.5	19.4	18.5	195.9
Indiana.....	142,270.7	625.7	16,469.5	66.9	12,531.3	57.4	29,000.7	124.2	20.4	19.9	116.4
Iowa.....	62,413.7	235.9	7,568.9	27.8	3,570.4	15.9	11,139.3	43.7	17.8	18.5	63.7
Kansas.....	46,296.4	193.7	4,063.6	18.6	1,383.8	6.5	5,447.4	25.1	11.8	13.0	43.0
Kentucky.....	86,636.1	288.4	10,199.2	27.2	7,604.6	31.1	17,803.8	58.3	20.6	20.2	87.1
Louisiana.....	80,424.0	165.8	7,527.0	15.3	3,508.6	7.5	11,035.6	22.8	13.7	13.7	59.0
Maine.....	14,097.6	82.3	1,723.8	8.8	503.2	3.3	2,227.0	12.1	15.8	14.7	11.7
Maryland.....	36,505.9	164.0	4,309.7	18.7	1,055.2	6.0	5,364.9	24.7	14.7	15.1	34.2
Massachusetts.....	77,876.6	417.1	13,175.1	65.8	6,381.0	37.8	19,556.1	103.6	25.1	24.8	86.3
Michigan.....	214,900.7	833.4	25,140.2	100.2	19,212.1	90.8	44,352.3	191.0	20.6	22.9	181.9
Minnesota.....	76,244.9	382.5	7,395.8	40.2	4,147.0	26.0	11,542.8	66.2	15.1	17.3	89.9
Mississippi.....	39,658.3	227.8	4,708.8	16.8	2,078.0	7.8	6,786.8	24.6	17.1	10.8	39.2
Missouri.....	93,115.5	371.4	12,089.9	44.2	5,818.2	31.5	17,908.1	75.6	19.2	20.4	91.4
Montana.....	4,866.3	19.6	489.5	1.8	55.2	0.2	544.7	2.0	11.2	10.3	3.9
Nebraska.....	27,859.2	106.7	2,936.9	11.5	1,274.9	4.5	4,211.8	16.0	15.1	15.0	40.0
Nevada.....	6,361.8	37.8	608.7	3.9	75.2	0.4	683.8	4.3	10.7	11.4	6.7
New Hampshire.....	19,813.1	98.9	3,218.2	14.3	1,908.9	11.1	5,127.1	25.4	25.9	25.7	27.5
New Jersey.....	97,060.8	409.8	8,945.7	38.7	4,526.4	20.7	13,472.1	59.4	13.9	14.5	93.3
New Mexico.....	17,906.1	39.7	6,205.4	6.5	1,752.0	5.4	7,957.3	11.9	44.4	30.0	85.2
New York.....	146,720.2	785.9	22,492.6	110.1	8,430.5	45.1	30,923.1	155.2	21.1	19.7	154.4
North Carolina.....	161,900.5	773.5	17,513.8	77.2	11,499.2	55.7	29,013.0	132.9	17.9	17.2	152.7
North Dakota.....	5,115.9	22.0	541.0	1.8	57.4	0.3	598.4	2.1	11.7	9.8	4.7
Ohio.....	241,902.9	984.2	29,492.1	116.3	24,536.4	107.4	54,028.5	223.7	22.3	22.7	227.8
Oklahoma.....	37,453.2	164.1	4,028.9	21.3	1,570.9	8.8	5,599.8	30.1	15.0	18.4	33.8
Oregon.....	47,666.0	213.1	7,428.0	29.4	3,662.1	16.6	11,090.1	46.0	23.3	21.6	82.8
Pennsylvania.....	172,193.2	826.5	16,758.4	84.1	11,391.2	52.8	28,149.6	136.9	16.3	16.6	133.5
Rhode Island.....	10,482.0	75.6	1,532.6	9.8	590.2	4.1	2,122.8	13.8	20.3	18.3	21.7
South Carolina.....	70,797.0	346.1	9,256.9	40.4	5,944.9	28.4	15,201.8	68.8	21.5	19.9	67.2
South Dakota.....	12,305.5	46.5	1,036.5	5.8	588.2	3.1	1,624.7	8.9	13.2	19.1	14.1
Tennessee.....	98,503.1	483.8	10,298.0	46.0	6,691.9	33.0	16,989.9	79.0	17.2	16.3	77.2
Texas.....	297,657.0	959.7	39,084.2	116.3	24,016.6	79.9	63,100.7	196.2	21.2	20.4	415.4
Utah.....	24,014.4	119.1	3,028.7	11.5	1,661.3	8.8	4,690.0	20.3	19.5	17.0	41.1
Vermont.....	7,803.0	42.5	1,326.3	5.6	434.6	2.5	1,761.0	8.1	22.6	19.0	14.1
Virginia.....	83,814.0	370.6	10,043.2	40.3	3,793.5	18.4	13,836.7	58.6	16.5	15.8	83.3
Washington.....	78,852.5	328.5	25,912.7	90.6	8,731.9	38.8	34,644.6	129.3	43.9	39.4	125.2
West Virginia.....	18,293.3	72.8	1,783.6	6.4	802.7	2.5	2,586.3	8.9	14.1	12.2	11.8
Wisconsin.....	117,383.0	562.5	11,603.3	56.7	6,260.1	36.2	17,863.3	92.8	15.2	16.5	99.0
Wyoming.....	2,955.1	8.4	36.2	0.3	5.2	-	41.5	0.3	1.4	3.4	1.2

- Represents zero.

1/Source: 1997 Economic Census, Manufacturing Sector, Industry Series.  
2/Source: 1997 Foreign Trade Statistics (Census Bureau unpublished data).

Table 3. Manufacturing Industries, Export Related Statistics for Industries

NAICS industry code	Industry	Value of all manufacturers' shipments (million dollars) 1/	All manufacturing employment (thousand) 1/	Direct exports (million dollars) 2/	Employment related to direct exports (thousand)	Export supporting shipments (million dollars)	Employment related to supporting shipments (thousand)	Total export related shipments (million dollars)	Total export related employment (thousand)		Export related as percent of all	
									Shipments	Employment	Shipments	Employment
	Total, all industries.....	3,842,061.6	16,887.9	502,881.3	2,027.8	280,529.2	1,316.3	783,410.5	3,343.9	20.4	19.8	
311	Food.....	423,978.7	1,471.1	23,341.2	67.3	8,513.4	22.7	31,854.6	90.0	7.5	6.1	
312	Beverage and tobacco products.....	97,124.6	176.0	6,048.8	7.3	623.9	1.1	6,672.7	8.3	6.9	4.7	
313	Textile mills.....	58,804.3	393.9	5,096.9	35.8	6,594.8	46.2	11,691.7	82.0	19.9	20.8	
314	Textile products.....	31,108.0	236.2	1,969.7	15.0	684.1	6.4	2,653.8	21.4	8.5	9.1	
315	Apparel.....	68,428.6	719.3	7,359.0	77.5	1,232.5	13.2	8,591.5	90.6	12.6	12.6	
316	Leather and allied products.....	10,899.5	84.8	2,133.1	13.7	514.6	2.7	2,647.7	16.4	24.3	19.3	
321	Wood products.....	89,211.6	574.4	4,396.4	24.9	3,897.6	24.2	8,294.0	49.2	9.3	8.6	
322	Paper.....	150,635.4	576.9	12,612.5	43.7	12,834.5	48.9	25,447.0	92.6	16.9	16.1	
323	Printing and related support activities.....	97,945.0	838.2	1,467.9	12.8	5,556.7	48.3	7,024.6	61.1	7.2	7.3	
324	Petroleum and coal products.....	176,217.3	107.9	6,666.3	3.9	7,946.7	5.3	14,613.0	9.2	8.3	8.5	
325	Chemicals.....	419,617.4	884.3	57,373.6	120.4	44,666.8	100.5	102,040.4	220.9	24.3	25.0	
326	Plastics and rubber products.....	160,317.7	1,030.0	11,432.8	73.3	15,829.8	103.8	27,262.6	177.1	17.0	17.2	
327	Nonmetallic mineral products.....	87,010.3	504.4	5,357.6	32.5	4,784.8	28.4	10,142.4	60.9	11.7	12.1	
331	Primary metals.....	170,188.7	611.7	18,074.7	51.9	44,472.2	162.2	62,546.9	214.1	36.8	35.0	
332	Fabricated metal products.....	243,254.5	1,774.9	16,358.3	109.4	34,719.2	282.4	51,077.5	391.8	21.0	22.1	
333	Machinery.....	270,357.2	1,421.8	65,445.6	324.7	12,870.1	71.8	78,315.7	396.5	29.0	27.9	
334	Computers and electronic products.....	438,209.2	1,698.5	114,968.5	428.1	39,183.5	174.6	154,152.0	602.7	35.2	35.5	
335	Electrical equipment, appliances, and components.....	111,809.7	594.9	18,546.6	97.8	9,886.4	55.9	28,433.0	153.7	25.4	25.8	
336	Transportation equipment.....	571,979.6	1,848.6	108,756.2	373.8	23,048.2	95.7	131,804.4	469.5	23.0	25.4	
337	Furniture and related products.....	63,939.5	604.8	2,230.7	20.8	595.6	6.2	2,826.3	27.0	4.4	4.5	
339	Miscellaneous products.....	101,024.8	735.3	13,244.9	93.2	2,073.8	15.8	15,318.7	109.0	15.2	14.8	

1/Source: 1997 Economic Census, Manufacturing Sector, Industry Series.

2/Source: 1997 Foreign Trade Statistics (Census Bureau unpublished data).

Table 4. Manufacturing Industries, Shipments and Employment Related to Manufactured Exports by State and Industry Subsector: 1997

NAICS industry code	Industry and state	Value of all manufacturers' shipments (million dollars) 1/	All manufacturing employment 1/ (thousand)	Direct exports 2/ (million dollars)	Employment related to direct exports (thousand)	Export supporting shipments (million dollars)	Employment related to supporting shipments (thousand)	Total export related shipments (million dollars)	Total export related employment (thousand)	Export related as percent of all	
			Shipments							Shipments	Employment
	Total, all industries.....	3,842,061.6	16,887.9	502,881.3	2,027.8	280,529.2	1,316.3	783,410.5	3,343.9	20.39	19.80
	ALABAMA.....	67,970.1	352.6	7,237.5	32.1	4,625.9	20.2	11,863.4	52.3	17.45	14.83
311	Food.....	6,124.3	34.9	154.0	1.0	93.8	0.3	247.8	1.3	4.05	3.83
312	Beverage and tobacco products.....	740.2	2.7	0.8	-	2.8	-	3.6	-	0.48	0.48
313	Textile mills.....	3,461.0	20.3	154.3	1.1	287.4	1.7	441.8	2.8	12.76	14.04
314	Textile products.....	1,627.5	10.6	67.8	0.5	48.9	0.4	116.8	0.9	7.17	8.04
315	Apparel.....	2,938.9	37.6	158.8	2.0	30.2	0.4	189.0	2.4	6.43	6.38
316	Leather and allied products.....	10.6	0.1	0.7	-	0.1	-	0.8	-	7.57	9.37
321	Wood products.....	4,381.8	25.9	122.0	0.6	141.9	0.7	263.9	1.4	6.02	5.25
322	Paper.....	6,287.7	19.1	621.8	1.7	205.9	0.7	827.7	2.5	13.16	12.87
323	Printing and related support activities.....	756.3	7.3	0.1	-	44.4	0.4	44.4	0.4	5.88	5.88
324	Petroleum and coal products.....	1,703.7	2.2	29.8	-	53.5	0.1	83.3	0.1	4.89	4.89
325	Chemicals.....	7,191.2	15.5	1,236.2	2.7	1,221.8	2.5	2,458.0	5.2	34.18	33.47
326	Plastics and rubber products.....	3,383.6	20.5	492.7	2.7	234.6	1.6	727.2	4.3	21.49	20.95
327	Nonmetallic mineral products.....	1,682.6	9.0	78.2	0.5	59.0	0.3	137.2	0.8	8.15	9.01
331	Primary metals.....	6,637.9	23.7	756.7	2.1	968.9	3.3	1,725.6	5.5	26.00	23.00
332	Fabricated metal products.....	3,995.4	30.0	249.5	1.7	372.9	3.2	622.3	4.9	15.58	16.30
333	Machinery.....	2,388.0	15.6	377.8	2.3	123.0	0.8	500.9	3.1	20.97	19.55
334	Computers and electronic products.....	5,610.8	20.3	925.0	4.5	321.8	1.5	1,246.8	6.0	22.22	29.77
335	Electrical equipment, appliances, and components.....	1,723.8	8.4	184.4	0.9	76.2	0.4	260.6	1.3	15.12	15.35
336	Transportation equipment.....	4,961.9	26.5	1,548.3	6.8	312.2	1.6	1,860.5	8.4	37.49	31.74
337	Furniture and related products.....	1,494.6	14.8	25.3	0.3	5.6	0.1	31.0	0.4	2.07	2.59
339	Miscellaneous products.....	868.2	7.5	53.3	0.5	21.1	0.2	74.4	0.7	8.57	8.96
	ALASKA.....	3,305.0	10.8	374.3	1.1	51.0	0.1	425.3	1.3	12.87	11.88
311	Food.....	1,357.5	7.6	107.5	0.6	17.6	0.1	125.1	0.7	9.21	9.21
312	Beverage and tobacco products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
313	Textile mills.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
314	Textile products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
315	Apparel.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
316	Leather and allied products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
321	Wood products.....	50.4	0.3	22.8	0.1	2.9	-	25.7	0.1	50.96	46.03
322	Paper.....	31.8	0.2	27.4	0.2	-	-	27.4	0.2	86.10	85.29
323	Printing and related support activities.....	40.5	0.4	-	-	0.2	-	0.2	-	0.49	0.49
324	Petroleum and coal products.....	1,362.6	0.4	65.7	-	13.3	-	79.0	-	5.80	5.80
325	Chemicals.....	256.9	0.4	147.5	0.2	16.8	-	164.3	0.2	63.96	56.69
326	Plastics and rubber products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
327	Nonmetallic mineral products.....	43.6	0.2	-	-	0.1	-	0.1	-	0.23	-
331	Primary metals.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
332	Fabricated metal products.....	50.2	0.4	0.1	-	-	-	0.1	-	0.21	0.24
333	Machinery.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
334	Computers and electronic products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
335	Electrical equipment, appliances, and components.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
336	Transportation equipment.....	21.6	0.2	0.3	-	-	-	0.3	-	1.22	-
337	Furniture and related products.....	9.9	0.1	-	-	-	-	-	-	0.07	0.08
339	Miscellaneous products.....	15.5	0.2	-	-	-	-	-	-	0.32	-
	ARIZONA.....	43,030.2	193.6	6,849.6	26.5	3,061.3	14.4	9,910.9	40.9	23.03	21.11
311	Food.....	2,523.1	8.6	64.4	0.2	13.8	0.1	78.2	0.3	3.10	2.94
312	Beverage and tobacco products.....	582.7	1.8	-	-	2.7	-	2.7	-	0.46	-
313	Textile mills.....	115.1	0.6	3.2	-	1.8	-	5.0	-	4.36	6.87
314	Textile products.....	102.2	1.2	2.8	-	1.0	-	3.8	-	3.69	3.72
315	Apparel.....	67.2	1.6	9.4	0.2	0.6	-	10.0	0.2	14.87	13.68
316	Leather and allied products.....	26.0	0.2	2.9	-	-	-	2.9	-	11.26	9.70
321	Wood products.....	947.1	7.9	6.4	0.1	20.2	0.2	26.6	0.2	2.81	2.81
322	Paper.....	727.2	2.9	65.4	0.3	39.1	0.1	104.5	0.4	14.37	14.99
323	Printing and related support activities.....	848.6	9.2	18.2	0.2	59.6	0.6	77.8	0.8	9.17	9.17
324	Petroleum and coal products.....	107.8	0.3	0.1	-	0.1	-	0.2	-	0.14	0.14
325	Chemicals.....	2,039.2	6.7	100.0	0.3	88.1	0.5	188.2	0.8	9.23	11.88
326	Plastics and rubber products.....	1,067.1	8.3	47.2	0.4	112.5	0.9	159.7	1.2	14.97	15.08
327	Nonmetallic mineral products.....	1,130.3	7.1	14.6	0.2	19.3	0.1	33.9	0.3	3.00	4.28
331	Primary metals.....	2,797.6	7.0	443.3	0.7	763.2	2.1	1,206.5	2.9	43.13	40.88
332	Fabricated metal products.....	2,764.6	20.3	466.8	2.4	402.1	3.8	868.9	6.2	31.43	30.43
333	Machinery.....	1,627.4	10.6	220.3	1.4	65.3	0.5	285.6	1.9	17.55	18.15
334	Computers and electronic products.....	16,295.2	48.4	3,163.3	9.8	751.2	2.3	3,914.4	12.1	24.02	24.92
335	Electrical equipment, appliances, and components.....	924.9	4.3	97.8	0.5	116.9	0.5	214.7	1.0	23.22	22.47
336	Transportation equipment.....	6,535.8	29.9	2,010.0	8.8	585.6	2.4	2,595.6	11.3	39.71	37.76
337	Furniture and related products.....	675.0	8.0	3.9	0.1	6.0	0.1	9.9	0.1	1.47	1.57
339	Miscellaneous products.....	1,125.9	8.8	109.5	0.9	12.4	0.1	121.8	1.0	10.82	11.64

Table 4. Manufacturing Industries, Shipments and Employment Related to Manufactured Exports by State and Industry Subsector: 1997

NAICS industry code	Industry and state	Value of all manufacturers' shipments (million dollars) 1/	All manufacturing employment 1/ (thousand)	Direct exports 2/ (million dollars)	Employment related to direct exports (thousand)	Export supporting shipments (million dollars)	Employment related to supporting shipments (thousand)	Total export related shipments (million dollars)	Total export related employment (thousand)	Export related as percent of all	
			Shipments							Shipments	Employment
	ARKANSAS.....	45,186.0	230.2	4,232.7	17.9	2,102.1	8.9	6,334.8	26.7	14.02	11.62
311	Food.....	10,656.6	50.6	780.6	2.1	267.3	0.6	1,047.8	2.7	9.83	5.32
312	Beverage and tobacco products.....	691.2	0.9	2.3	-	2.3	-	4.7	-	0.67	0.67
313	Textile mills.....	103.5	1.2	6.4	0.1	13.7	0.2	20.1	0.2	19.41	20.50
314	Textile products.....	263.0	2.3	8.0	0.1	6.7	-	14.7	0.1	5.57	4.63
315	Apparel.....	472.8	8.6	43.9	0.8	6.7	0.1	50.6	1.0	10.71	11.36
316	Leather and allied products.....	184.6	3.1	7.8	0.1	0.1	-	7.9	0.1	4.31	3.18
321	Wood products.....	2,562.2	14.4	55.8	0.3	64.5	0.4	120.3	0.7	4.70	4.73
322	Paper.....	3,735.0	13.0	318.2	1.0	174.4	0.6	492.6	1.6	13.19	12.21
323	Printing and related support activities.....	530.0	4.8	2.0	-	27.1	0.2	29.1	0.3	5.50	5.50
324	Petroleum and coal products.....	1,246.2	1.3	3.4	-	47.0	-	50.4	0.1	4.05	4.05
325	Chemicals.....	3,014.0	7.3	517.6	1.3	409.4	0.9	927.0	2.2	30.76	29.77
326	Plastics and rubber products.....	2,487.1	14.5	127.4	0.7	136.3	0.8	263.8	1.6	10.61	10.72
327	Nonmetallic mineral products.....	729.9	4.5	34.8	0.2	29.0	0.2	63.8	0.3	8.75	7.50
331	Primary metals.....	3,671.4	8.7	370.2	0.8	424.5	1.2	794.7	2.0	21.64	22.48
332	Fabricated metal products.....	3,204.6	22.7	229.6	1.6	157.6	1.3	387.3	2.9	12.08	12.59
333	Machinery.....	3,065.5	17.1	483.9	2.6	79.9	0.6	563.7	3.1	18.39	18.20
334	Computers and electronic products.....	999.1	4.7	194.8	0.8	47.2	0.5	242.1	1.3	24.23	27.93
335	Electrical equipment, appliances, and components.....	2,809.3	16.2	347.8	1.9	79.0	0.4	426.8	2.3	15.19	14.48
336	Transportation equipment.....	2,931.4	15.5	595.2	2.7	94.8	0.4	690.0	3.1	23.54	19.92
337	Furniture and related products.....	893.0	10.5	16.3	0.2	21.7	0.3	38.0	0.5	4.26	4.29
339	Miscellaneous products.....	935.6	8.3	86.5	0.8	12.9	0.1	99.4	0.9	10.63	10.49
	CALIFORNIA.....	379,612.4	1,809.7	67,843.8	288.8	40,106.7	210.1	107,950.5	499.0	28.44	27.57
311	Food.....	39,975.1	154.5	2,618.6	9.6	761.3	2.6	3,380.0	12.2	8.46	7.91
312	Beverage and tobacco products.....	11,204.6	28.1	443.2	1.1	68.1	0.2	511.2	1.3	4.56	4.56
313	Textile mills.....	1,384.4	11.9	66.0	0.6	236.9	2.2	302.9	2.8	21.88	23.63
314	Textile products.....	2,270.9	22.6	129.7	1.4	41.8	0.5	171.5	1.9	7.55	8.33
315	Apparel.....	12,776.1	130.1	1,519.9	15.6	269.8	2.8	1,789.8	18.3	14.01	14.09
316	Leather and allied products.....	633.8	7.5	175.2	2.0	10.2	0.1	185.4	2.1	29.25	27.65
321	Wood products.....	6,169.1	38.8	260.2	1.7	381.3	2.2	641.5	3.8	10.40	9.87
322	Paper.....	8,167.5	34.7	423.9	1.7	1,153.5	4.8	1,577.4	6.5	19.31	18.78
323	Printing and related support activities.....	9,897.8	85.8	128.7	1.1	1,071.1	9.3	1,199.7	10.4	12.12	12.12
324	Petroleum and coal products.....	20,913.8	12.8	462.8	0.3	1,360.9	0.8	1,823.7	1.1	8.72	8.72
325	Chemicals.....	19,604.5	63.2	2,819.2	8.4	2,299.2	6.5	5,118.4	14.9	26.11	23.61
326	Plastics and rubber products.....	12,944.5	89.7	1,381.3	9.6	1,984.7	13.7	3,366.0	23.3	26.00	25.98
327	Nonmetallic mineral products.....	7,490.4	42.7	203.0	1.4	562.6	3.6	765.6	5.0	10.22	11.64
331	Primary metals.....	6,105.8	24.3	513.4	1.8	2,180.6	9.2	2,694.0	10.9	44.12	44.98
332	Fabricated metal products.....	24,137.1	187.1	1,502.3	10.4	6,322.9	55.4	7,825.1	65.9	32.42	35.21
333	Machinery.....	19,128.5	105.9	5,636.7	30.0	953.6	5.8	6,590.3	35.7	34.45	33.73
334	Computers and electronic products.....	113,493.6	396.5	37,530.7	126.4	15,918.8	64.1	53,449.5	190.5	47.19	48.14
335	Electrical equipment, appliances, and components.....	7,207.4	41.6	2,126.0	11.6	2,152.0	12.2	4,278.0	23.8	58.14	56.53
336	Transportation equipment.....	34,818.0	167.1	6,964.3	34.1	1,945.4	10.6	8,909.6	44.7	25.59	26.74
337	Furniture and related products.....	6,669.3	65.7	231.1	2.4	101.6	1.1	332.7	3.6	4.99	5.42
339	Miscellaneous products.....	14,620.3	99.0	2,707.6	17.8	330.5	2.4	3,038.1	20.2	20.78	20.39
	COLORADO.....	40,012.8	173.1	5,542.5	22.4	2,907.8	13.7	8,450.3	36.1	21.12	20.85
311	Food.....	5,518.0	18.1	433.6	1.1	177.6	0.5	611.1	1.5	11.08	8.50
312	Beverage and tobacco products.....	2,526.8	6.6	14.2	-	6.9	-	21.1	0.1	0.84	0.84
313	Textile mills.....	33.4	0.4	1.6	-	3.5	-	5.1	0.1	15.32	15.50
314	Textile products.....	361.2	2.4	35.0	0.2	1.6	-	36.6	0.2	10.14	9.88
315	Apparel.....	109.8	1.9	16.9	0.3	1.0	-	17.9	0.3	16.31	15.89
316	Leather and allied products.....	600.6	1.6	104.8	0.3	2.4	-	107.1	0.3	17.84	16.76
321	Wood products.....	503.3	4.0	9.9	0.1	16.8	0.1	26.7	0.2	5.30	5.29
322	Paper.....	691.9	3.1	20.1	0.1	52.0	0.2	72.1	0.3	10.42	10.44
323	Printing and related support activities.....	1,323.6	11.7	26.0	0.2	86.6	0.8	112.5	1.0	8.50	8.50
324	Petroleum and coal products.....	856.6	0.6	1.1	-	37.9	-	39.0	-	4.56	4.56
325	Chemicals.....	2,820.8	6.7	153.6	0.6	211.2	0.6	364.8	1.2	12.93	17.72
326	Plastics and rubber products.....	1,110.5	7.0	128.7	0.8	89.2	0.6	217.8	1.4	19.61	19.59
327	Nonmetallic mineral products.....	1,359.3	8.9	111.8	0.9	26.4	0.2	138.3	1.0	10.17	11.80
331	Primary metals.....	582.0	2.4	46.3	0.2	117.0	0.5	163.3	0.6	28.05	25.67
332	Fabricated metal products.....	2,213.8	15.5	130.7	0.9	294.5	2.4	425.2	3.3	19.21	21.50
333	Machinery.....	1,806.8	11.7	459.7	3.2	80.7	0.6	540.4	3.8	29.91	32.59
334	Computers and electronic products.....	11,527.6	40.4	3,577.7	11.7	1,579.6	6.2	5,157.3	17.9	44.74	44.41
335	Electrical equipment, appliances, and components.....	275.8	2.1	34.1	0.3	57.6	0.5	91.7	0.7	33.25	33.62
336	Transportation equipment.....	4,124.8	12.5	125.5	0.5	42.4	0.3	167.9	0.7	4.07	5.81
337	Furniture and related products.....	475.4	5.0	28.0	0.3	2.7	-	30.7	0.4	6.46	7.20
339	Miscellaneous products.....	1,191.0	10.3	83.4	0.7	20.3	0.2	103.7	0.9	8.71	9.11

Table 4. Manufacturing Industries, Shipments and Employment Related to Manufactured Exports by State and Industry Subsector: 1997

NAICS industry code	Industry and state	Value of all manufacturers' shipments (million dollars) 1/	All manufacturing employment 1/ (thousand)	Direct exports 2/ (million dollars)	Employment related to direct exports (thousand)	Export supporting shipments (million dollars)	Employment related to supporting shipments (thousand)	Total export related shipments (million dollars)	Total export related employment (thousand)	Export related as percent of all	
			Shipments	Employment						Shipments	Employment
	CONNECTICUT.....	46,938.2	252.3	8,164.1	40.4	4,181.5	22.8	12,345.7	63.1	26.30	25.03
311	Food.....	1,858.0	8.1	39.4	0.1	6.0	-	45.4	0.2	2.44	2.07
312	Beverage and tobacco products.....	183.0	0.4	0.6	-	3.3	-	3.9	-	2.11	2.21
313	Textile mills.....	659.3	3.8	138.6	0.7	41.3	0.2	179.9	1.0	27.28	25.54
314	Textile products.....	168.8	1.8	18.9	0.2	2.9	-	21.7	0.2	12.88	13.48
315	Apparel.....	356.4	2.0	47.1	0.3	3.6	-	50.7	0.3	14.24	14.61
316	Leather and allied products.....	76.3	0.3	8.7	-	0.1	-	8.8	-	11.50	9.23
321	Wood products.....	191.1	1.5	8.7	0.1	7.5	0.1	16.1	0.1	8.44	8.45
322	Paper.....	1,839.4	6.1	88.0	0.3	219.7	0.7	307.6	1.0	16.73	17.11
323	Printing and related support activities.....	1,719.8	13.4	21.7	0.2	77.3	0.6	99.0	0.8	5.76	5.76
324	Petroleum and coal products.....	233.2	0.4	1.3	-	1.4	-	2.7	-	1.17	1.17
325	Chemicals.....	5,583.5	17.0	685.6	1.8	587.1	1.4	1,272.6	3.2	22.79	19.03
326	Plastics and rubber products.....	1,574.6	11.1	136.5	1.0	256.9	1.8	393.5	2.8	24.99	24.98
327	Nonmetallic mineral products.....	506.4	2.8	14.8	0.1	38.3	0.2	53.1	0.3	10.49	10.92
331	Primary metals.....	1,572.7	6.1	213.7	0.7	468.8	2.1	682.6	2.8	43.41	45.85
332	Fabricated metal products.....	5,836.8	44.3	433.9	3.1	696.1	5.6	1,130.0	8.7	19.36	19.58
333	Machinery.....	4,569.4	23.3	1,119.4	5.5	221.5	1.4	1,340.9	7.0	29.34	29.80
334	Computers and electronic products.....	4,189.5	24.2	844.4	5.0	438.3	2.8	1,282.6	7.8	30.61	32.30
335	Electrical equipment, appliances, and components.....	2,374.9	14.7	375.2	2.4	190.6	1.3	565.9	3.7	23.83	24.92
336	Transportation equipment.....	9,810.4	51.3	3,208.3	15.4	865.1	4.1	4,073.4	19.5	41.52	37.98
337	Furniture and related products.....	327.6	3.1	24.3	0.2	3.3	-	27.6	0.2	8.41	7.05
339	Miscellaneous products.....	3,306.9	16.6	735.2	3.3	52.5	0.3	787.7	3.6	23.82	21.34
	DELAWARE.....	13,397.3	41.1	911.0	3.4	318.9	1.0	1,229.9	4.4	9.18	10.60
311	Food.....	2,037.6	9.3	83.7	0.6	11.7	0.1	95.4	0.7	4.68	7.34
312	Beverage and tobacco products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
313	Textile mills.....	34.8	0.3	10.0	0.1	1.5	-	11.5	0.1	33.09	27.54
314	Textile products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
315	Apparel.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
316	Leather and allied products.....	1.6	-	0.2	-	-	-	0.2	-	12.12	12.23
321	Wood products.....	90.2	0.8	0.2	-	0.2	-	0.4	-	0.45	0.43
322	Paper.....	804.4	2.7	22.1	0.1	8.9	-	30.9	0.1	3.85	3.97
323	Printing and related support activities.....	77.3	0.9	0.1	-	2.5	-	2.7	-	3.44	3.44
324	Petroleum and coal products.....	1,511.9	0.8	2.5	-	25.1	-	27.7	-	1.83	1.83
325	Chemicals.....	4,073.8	6.9	304.6	0.6	203.3	0.4	507.8	1.0	12.47	15.07
326	Plastics and rubber products.....	849.9	3.9	78.1	0.4	29.8	0.1	107.9	0.5	12.70	13.81
327	Nonmetallic mineral products.....	185.8	0.9	11.4	-	1.4	-	12.9	-	6.92	5.50
331	Primary metals.....	207.0	0.7	14.3	-	7.5	-	21.8	0.1	10.51	9.63
332	Fabricated metal products.....	311.7	2.6	6.2	-	10.5	0.1	16.7	0.1	5.37	5.86
333	Machinery.....	152.1	1.0	17.7	0.1	1.9	-	19.7	0.1	12.93	13.43
334	Computers and electronic products.....	401.9	1.6	155.5	0.6	2.0	-	157.4	0.6	39.18	37.08
335	Electrical equipment, appliances, and components.....	173.0	0.8	25.4	0.1	3.1	-	28.5	0.1	16.46	15.85
336	Transportation equipment.....	1,874.3	4.3	97.8	0.2	3.8	-	101.6	0.2	5.42	5.40
337	Furniture and related products.....	70.5	0.5	2.9	-	0.5	-	3.4	-	4.83	4.56
339	Miscellaneous products.....	415.1	2.3	74.7	0.4	3.6	-	78.3	0.4	18.86	18.27
	DISTRICT OF COLUMBIA.....	320.2	2.9	1.2	-	-	-	1.3	-	0.40	0.45
311	Food.....	28.6	0.4	-	-	-	-	-	-	0.05	0.05
312	Beverage and tobacco products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
313	Textile mills.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
314	Textile products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
315	Apparel.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
316	Leather and allied products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
321	Wood products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
322	Paper.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
323	Printing and related support activities.....	208.7	1.8	0.1	-	-	-	0.1	-	0.05	0.05
324	Petroleum and coal products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
325	Chemicals.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
326	Plastics and rubber products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
327	Nonmetallic mineral products.....	25.8	0.1	-	-	-	-	-	-	-	-
331	Primary metals.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
332	Fabricated metal products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
333	Machinery.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
334	Computers and electronic products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
335	Electrical equipment, appliances, and components.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
336	Transportation equipment.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
337	Furniture and related products.....	10.8	0.1	0.8	-	-	-	0.8	-	7.62	-
339	Miscellaneous products.....	11.0	0.1	-	-	-	-	-	-	0.27	-

Table 4. Manufacturing Industries, Shipments and Employment Related to Manufactured Exports by State and Industry Subsector: 1997

NAICS industry code	Industry and state	Value of all manufacturers' shipments (million dollars) 1/	All manufacturing employment 1/ (thousand)	Direct exports 2/ (million dollars)	Employment related to direct exports (thousand)	Export supporting shipments (million dollars)	Employment related to supporting shipments (thousand)	Total export related shipments (million dollars)	Total export related employment (thousand)	Export related as percent of all	
			Shipments							Shipments	Employment
	FLORIDA.....	77,477.5	433.1	9,991.2	47.2	2,706.8	13.9	12,698.1	61.1	16.38	14.11
311	Food.....	10,539.2	36.9	630.8	1.7	84.1	0.3	714.9	2.0	6.78	5.39
312	Beverage and tobacco products.....	3,361.3	8.4	57.0	0.2	8.1	-	65.1	0.2	1.94	2.02
313	Textile mills.....	368.6	3.0	16.7	0.1	21.5	0.2	38.2	0.3	10.36	10.87
314	Textile products.....	508.1	7.1	39.8	0.6	6.6	0.1	46.4	0.7	9.14	9.59
315	Apparel.....	1,688.1	18.8	129.5	1.4	14.3	0.2	143.9	1.6	8.52	8.55
316	Leather and allied products.....	315.2	3.7	50.0	0.5	2.5	-	52.5	0.6	16.66	14.97
321	Wood products.....	2,270.0	15.4	40.1	0.2	41.6	0.2	81.7	0.4	3.60	2.88
322	Paper.....	3,823.6	12.6	637.4	1.7	183.1	0.6	820.5	2.3	21.46	18.22
323	Printing and related support activities.....	2,793.4	27.6	31.2	0.3	74.4	0.7	105.6	1.0	3.78	3.78
324	Petroleum and coal products.....	367.0	0.9	8.5	-	5.5	-	14.0	-	3.82	3.82
325	Chemicals.....	8,761.6	20.2	2,092.2	3.8	616.1	1.1	2,708.2	4.9	30.91	24.35
326	Plastics and rubber products.....	2,544.9	20.0	147.4	1.2	148.9	1.2	296.3	2.3	11.64	11.68
327	Nonmetallic mineral products.....	3,569.5	20.9	116.4	0.8	46.3	0.3	162.7	1.1	4.56	5.23
331	Primary metals.....	1,101.7	5.3	137.4	0.7	106.1	0.5	243.5	1.2	22.10	22.63
332	Fabricated metal products.....	5,075.0	41.7	227.9	2.0	249.2	2.2	477.1	4.2	9.40	10.05
333	Machinery.....	3,521.5	26.7	763.7	5.5	63.6	0.5	827.3	6.0	23.49	22.35
334	Computers and electronic products.....	12,800.9	68.2	1,902.7	10.6	537.8	3.5	2,440.4	14.1	18.98	20.62
335	Electrical equipment, appliances, and components.....	1,399.0	11.2	351.4	2.8	69.2	0.5	420.6	3.3	30.07	29.44
336	Transportation equipment.....	6,903.5	38.0	1,931.7	8.6	392.8	1.5	2,324.4	10.2	33.67	26.73
337	Furniture and related products.....	1,707.5	18.7	38.9	0.4	5.2	0.1	44.1	0.5	2.58	2.70
339	Miscellaneous products.....	4,058.0	27.9	640.6	4.0	29.8	0.2	670.5	4.2	16.52	15.18
	GEORGIA.....	124,526.8	533.8	13,173.1	46.5	5,626.5	26.2	18,799.6	72.7	15.10	13.62
311	Food.....	15,346.4	60.3	512.6	2.4	218.2	0.7	730.8	3.1	4.76	5.20
312	Beverage and tobacco products.....	6,675.2	7.3	1,294.2	1.1	25.1	-	1,319.3	1.1	19.76	14.87
313	Textile mills.....	7,615.5	52.4	443.4	3.0	835.8	5.8	1,279.2	8.8	16.80	16.78
314	Textile products.....	10,414.5	49.7	654.1	3.3	93.2	0.5	747.2	3.8	7.17	7.71
315	Apparel.....	3,225.6	32.5	206.4	2.1	45.5	0.5	251.9	2.7	7.81	8.19
316	Leather and allied products.....	41.2	0.5	1.1	-	0.2	-	1.3	-	3.14	4.08
321	Wood products.....	5,174.9	28.1	126.9	0.5	220.0	1.0	346.9	1.6	6.70	5.53
322	Paper.....	8,970.6	27.0	1,373.7	3.6	665.8	1.9	2,039.5	5.5	22.74	20.26
323	Printing and related support activities.....	2,688.6	22.2	65.4	0.5	172.4	1.4	237.7	2.0	8.81	8.81
324	Petroleum and coal products.....	664.8	1.1	1.5	-	15.0	-	16.6	-	2.49	2.49
325	Chemicals.....	11,189.4	23.6	964.6	2.1	1,034.9	2.6	1,999.6	4.7	17.87	19.87
326	Plastics and rubber products.....	4,938.5	26.9	234.7	1.3	414.3	2.3	649.0	3.5	13.14	13.13
327	Nonmetallic mineral products.....	3,574.2	18.2	331.9	1.8	111.1	0.6	443.0	2.3	12.42	12.87
331	Primary metals.....	2,079.9	6.7	148.5	0.2	408.8	1.3	557.3	1.6	26.79	23.35
332	Fabricated metal products.....	4,784.0	32.0	244.5	1.6	261.9	2.0	506.5	3.5	10.59	10.99
333	Machinery.....	5,807.7	27.0	982.0	4.6	168.5	0.9	1,150.5	5.5	19.81	20.35
334	Computers and electronic products.....	4,790.4	20.7	957.5	4.0	177.5	0.9	1,135.1	4.9	23.70	23.42
335	Electrical equipment, appliances, and components.....	5,156.7	20.9	607.1	2.3	161.9	0.6	769.0	2.9	14.91	13.92
336	Transportation equipment.....	17,481.4	46.3	3,820.2	10.6	551.8	2.7	4,372.0	13.4	25.01	28.83
337	Furniture and related products.....	1,656.5	14.0	39.4	0.3	10.7	0.1	50.1	0.5	3.02	3.25
339	Miscellaneous products.....	2,250.9	16.5	163.4	1.2	33.8	0.3	197.2	1.5	8.78	8.98
	HAWAII.....	3,192.5	15.1	288.8	1.1	35.2	0.1	324.0	1.2	10.15	8.12
311	Food.....	878.1	6.1	70.5	0.5	12.6	0.1	83.1	0.6	9.46	9.28
312	Beverage and tobacco products.....	151.5	0.7	2.9	-	0.1	-	2.9	-	1.92	1.92
313	Textile mills.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
314	Textile products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
315	Apparel.....	133.9	1.6	22.2	0.2	0.9	-	23.1	0.2	17.23	15.71
316	Leather and allied products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
321	Wood products.....	31.4	0.2	0.2	-	-	-	0.2	-	0.74	0.71
322	Paper.....	26.5	0.1	1.0	-	0.6	-	1.6	-	5.88	5.88
323	Printing and related support activities.....	140.2	1.7	5.5	0.1	1.3	-	6.8	0.1	4.85	4.85
324	Petroleum and coal products.....	1,312.0	0.6	163.9	0.1	17.0	-	180.9	0.1	13.79	13.79
325	Chemicals.....	23.6	0.2	0.3	-	0.3	-	0.6	-	2.69	2.39
326	Plastics and rubber products.....	26.1	0.3	0.2	-	0.3	-	0.4	-	1.63	1.59
327	Nonmetallic mineral products.....	135.8	0.7	-	-	0.2	-	0.2	-	0.16	0.19
331	Primary metals.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
332	Fabricated metal products.....	85.6	0.5	0.9	-	0.9	-	1.8	-	2.15	2.07
333	Machinery.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
334	Computers and electronic products.....	31.0	0.1	7.9	-	-	-	7.9	-	25.52	23.16
335	Electrical equipment, appliances, and components.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
336	Transportation equipment.....	47.3	0.4	0.4	-	0.5	-	0.8	-	1.78	1.77
337	Furniture and related products.....	40.4	0.4	0.8	-	-	-	0.8	-	1.93	2.35
339	Miscellaneous products.....	106.0	1.4	11.0	0.1	0.1	-	11.1	0.1	10.51	10.88

Table 4. Manufacturing Industries, Shipments and Employment Related to Manufactured Exports by State and Industry Subsector: 1997

NAICS industry code	Industry and state	Value of all manufacturers' shipments (million dollars) 1/	All manufacturing employment 1/ (thousand)	Direct exports 2/ (million dollars)	Employment related to direct exports (thousand)	Export supporting shipments (million dollars)	Employment related to supporting shipments (thousand)	Total export related shipments (million dollars)	Total export related employment (thousand)	Export related as percent of all	
										Shipments	Employment
	IDAHO.....	16,952.9	66.2	4,600.7	9.6	1,677.5	7.9	6,278.1	17.5	37.03	26.41
311	Food.....	3,977.7	16.2	255.8	1.1	84.6	0.3	340.4	1.5	8.56	9.03
312	Beverage and tobacco products.....	79.3	0.2	-	-	2.6	-	2.6	-	3.30	3.30
313	Textile mills.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
314	Textile products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
315	Apparel.....	12.4	0.3	1.5	-	-	-	1.5	-	12.22	11.39
316	Leather and allied products.....	23.0	0.2	3.1	-	-	-	3.2	-	13.87	14.50
321	Wood products.....	2,010.5	9.3	29.4	0.1	51.1	0.2	80.5	0.4	4.00	4.12
322	Paper.....	613.3	2.0	142.0	0.4	120.8	0.4	262.8	0.9	42.85	43.07
323	Printing and related support activities.....	191.6	2.4	0.1	-	59.0	0.7	59.2	0.8	30.88	30.88
324	Petroleum and coal products.....	33.3	0.1	-	-	-	-	-	-	0.09	0.09
325	Chemicals.....	904.1	3.0	40.7	0.1	129.4	0.3	170.1	0.5	18.81	15.12
326	Plastics and rubber products.....	143.5	1.5	4.8	0.1	60.0	0.7	64.8	0.7	45.12	46.04
327	Nonmetallic mineral products.....	171.7	1.4	1.5	-	4.3	-	5.8	-	3.36	3.47
331	Primary metals.....	20.8	0.1	2.0	-	14.1	0.1	16.1	0.1	77.42	61.47
332	Fabricated metal products.....	387.2	3.9	36.6	0.4	146.6	1.5	183.2	1.9	47.33	49.33
333	Machinery.....	377.6	2.8	49.8	0.4	23.2	0.2	73.0	0.5	19.34	19.25
334	Computers and electronic products.....	7,423.9	16.8	3,976.2	6.3	940.2	2.9	4,916.4	9.2	66.22	54.77
335	Electrical equipment, appliances, and components.....	60.9	0.6	4.4	-	20.5	0.2	24.9	0.2	40.94	41.78
336	Transportation equipment.....	239.1	1.9	39.8	0.3	9.1	0.1	48.8	0.4	20.43	23.21
337	Furniture and related products.....	136.4	1.8	0.1	-	2.6	-	2.7	-	1.96	2.29
339	Miscellaneous products.....	122.7	1.3	11.7	0.1	7.5	0.1	19.2	0.2	15.67	17.85
	ILLINOIS.....	200,020.0	887.4	23,697.8	93.7	15,073.1	70.8	38,770.9	164.5	19.41	18.55
311	Food.....	29,267.0	84.6	2,450.4	4.0	809.0	1.2	3,259.4	5.3	11.14	6.26
312	Beverage and tobacco products.....	1,733.2	3.8	37.2	-	9.0	-	46.3	0.1	2.67	1.33
313	Textile mills.....	194.3	1.3	3.0	-	24.9	0.2	27.9	0.2	14.37	15.27
314	Textile products.....	500.7	5.3	13.4	0.1	13.2	0.1	26.6	0.3	5.31	5.43
315	Apparel.....	830.0	10.7	91.8	1.0	8.1	0.1	99.9	1.1	12.04	10.34
316	Leather and allied products.....	262.3	2.8	48.0	0.4	7.9	0.1	55.9	0.5	21.31	17.42
321	Wood products.....	1,138.4	9.6	29.7	0.2	51.5	0.5	81.2	0.7	7.13	7.04
322	Paper.....	5,872.8	29.0	261.3	1.3	439.7	2.1	700.9	3.4	11.94	11.67
323	Printing and related support activities.....	7,859.7	59.7	77.6	0.6	314.7	2.4	392.3	3.0	5.01	5.01
324	Petroleum and coal products.....	9,445.7	5.4	69.7	-	568.3	0.3	637.9	0.4	6.75	6.75
325	Chemicals.....	22,005.8	54.4	3,310.6	9.3	2,294.4	4.9	5,605.0	14.3	25.47	26.22
326	Plastics and rubber products.....	11,326.0	68.0	551.2	3.2	983.5	5.8	1,534.7	9.1	13.55	13.31
327	Nonmetallic mineral products.....	3,197.8	19.1	122.5	0.9	235.5	1.6	358.1	2.5	11.47	12.87
331	Primary metals.....	10,875.5	39.3	726.3	2.3	3,580.6	13.6	4,306.9	15.8	39.60	40.31
332	Fabricated metal products.....	18,666.9	133.2	900.2	6.1	2,114.2	15.6	3,014.4	21.6	16.15	16.24
333	Machinery.....	26,221.0	115.4	6,352.1	24.4	1,338.3	6.1	7,690.4	30.4	29.33	26.37
334	Computers and electronic products.....	16,281.7	76.6	3,864.4	16.6	943.6	8.1	4,807.9	24.6	29.79	32.38
335	Electrical equipment, appliances, and components.....	7,668.1	49.2	1,238.0	8.0	550.3	3.6	1,788.2	11.5	23.32	23.45
336	Transportation equipment.....	18,807.5	60.2	2,818.3	9.6	611.4	3.3	3,429.7	12.8	18.24	21.28
337	Furniture and related products.....	2,512.1	19.9	103.7	0.9	38.3	0.4	142.0	1.3	5.65	6.45
339	Miscellaneous products.....	5,353.6	39.7	628.4	4.7	136.8	1.0	765.2	5.7	14.29	14.27
	INDIANA.....	142,270.7	625.7	16,469.5	66.9	12,531.3	57.4	29,000.7	124.2	20.38	19.85
311	Food.....	10,620.5	33.1	470.1	1.4	259.1	0.7	729.2	2.0	6.87	6.20
312	Beverage and tobacco products.....	1,599.6	3.2	33.7	0.1	10.0	-	43.8	0.1	2.74	2.70
313	Textile mills.....	56.7	0.5	1.6	-	37.5	0.3	39.2	0.3	69.07	61.29
314	Textile products.....	349.9	3.6	15.3	0.2	27.5	0.3	42.8	0.4	12.23	12.29
315	Apparel.....	244.0	2.5	17.0	0.2	6.9	0.1	24.0	0.3	9.82	11.21
316	Leather and allied products.....	146.4	1.6	20.8	0.2	3.0	-	23.7	0.3	16.21	16.50
321	Wood products.....	3,167.4	21.7	143.2	1.1	127.0	0.9	270.2	2.0	8.53	9.35
322	Paper.....	2,765.4	13.3	137.4	0.7	296.2	1.4	433.6	2.1	15.68	15.43
323	Printing and related support activities.....	2,715.8	22.2	20.8	0.2	178.4	1.5	199.2	1.6	7.34	7.34
324	Petroleum and coal products.....	4,606.2	3.2	168.0	0.1	336.1	0.2	504.2	0.4	10.95	10.95
325	Chemicals.....	13,319.1	21.9	1,881.3	2.6	1,357.2	3.0	3,238.4	5.6	24.31	25.73
326	Plastics and rubber products.....	7,323.1	54.9	504.5	3.9	602.7	4.5	1,107.3	8.4	15.12	15.33
327	Nonmetallic mineral products.....	3,249.9	18.5	172.2	1.0	243.1	1.5	415.3	2.5	12.78	13.70
331	Primary metals.....	19,288.4	63.3	1,631.0	4.5	4,195.0	14.4	5,825.9	18.9	30.20	29.87
332	Fabricated metal products.....	10,670.6	69.3	528.9	3.4	1,812.7	12.4	2,341.6	15.8	21.94	22.79
333	Machinery.....	10,524.5	49.8	2,638.7	10.5	825.4	4.0	3,464.1	14.5	32.92	29.10
334	Computers and electronic products.....	4,731.7	28.1	694.9	3.6	374.9	2.5	1,069.8	6.1	22.61	21.82
335	Electrical equipment, appliances, and components.....	4,027.5	21.7	602.0	3.2	504.1	3.1	1,106.1	6.4	27.46	29.26
336	Transportation equipment.....	35,968.6	143.4	6,435.8	27.7	1,193.7	5.4	7,629.5	33.1	21.21	23.09
337	Furniture and related products.....	2,865.0	26.2	86.2	0.8	53.7	0.5	139.9	1.3	4.88	4.82
339	Miscellaneous products.....	4,030.2	23.8	266.1	1.5	86.9	0.6	353.0	2.1	8.76	8.96

Table 4. Manufacturing Industries, Shipments and Employment Related to Manufactured Exports by State and Industry Subsector: 1997

NAICS industry code	Industry and state	Value of all manufacturers' shipments (million dollars) 1/	All manufacturing employment 1/ (thousand)	Direct exports 2/ (million dollars)	Employment related to direct exports (thousand)	Export supporting shipments (million dollars)	Employment related to supporting shipments (thousand)	Total export related shipments (million dollars)	Total export related employment (thousand)	Export related as percent of all	
										Shipments	Employment
	IOWA.....	62,413.7	235.9	7,568.9	27.8	3,570.4	15.9	11,139.3	43.7	17.85	18.53
311	Food.....	21,376.1	45.0	1,644.8	2.9	682.6	1.1	2,327.4	4.0	10.89	8.79
312	Beverage and tobacco products.....	461.0	1.0	-	-	2.6	-	2.6	-	0.56	-
313	Textile mills.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
314	Textile products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
315	Apparel.....	242.2	3.5	48.6	0.8	5.4	0.1	53.9	0.9	22.27	24.15
316	Leather and allied products.....	65.7	0.7	39.4	0.4	8.0	0.1	47.4	0.5	72.10	73.63
321	Wood products.....	1,063.1	8.3	26.8	0.2	18.9	0.2	45.7	0.4	4.29	4.33
322	Paper.....	1,531.2	5.5	37.8	0.1	120.1	0.4	157.9	0.6	10.31	10.84
323	Printing and related support activities.....	1,336.2	11.6	17.3	0.2	81.4	0.7	98.6	0.9	7.38	7.38
324	Petroleum and coal products.....	110.3	0.2	0.3	-	8.3	-	8.5	-	7.74	7.74
325	Chemicals.....	5,297.2	6.9	561.2	0.9	400.4	0.6	961.6	1.5	18.15	21.14
326	Plastics and rubber products.....	2,555.0	15.6	290.5	1.7	312.1	1.9	602.6	3.6	23.58	22.81
327	Nonmetallic mineral products.....	1,563.7	7.1	6.0	-	28.4	0.1	34.3	0.1	2.20	1.76
331	Primary metals.....	2,708.8	9.4	474.1	1.1	586.1	2.8	1,060.3	3.9	39.14	40.88
332	Fabricated metal products.....	3,287.5	24.3	274.5	2.1	577.8	4.6	852.3	6.7	25.93	27.44
333	Machinery.....	11,555.8	37.1	2,680.4	8.3	496.7	1.9	3,177.1	10.2	27.49	27.60
334	Computers and electronic products.....	1,958.1	14.1	397.1	2.7	34.9	0.3	432.0	3.0	22.06	21.07
335	Electrical equipment, appliances, and components.....	2,440.1	12.3	489.1	2.5	84.7	0.4	573.9	2.9	23.52	23.75
336	Transportation equipment.....	2,848.5	18.5	452.5	2.9	93.9	0.6	546.4	3.5	19.18	19.02
337	Furniture and related products.....	1,122.1	8.0	14.6	0.1	2.6	-	17.2	0.2	1.53	2.03
339	Miscellaneous products.....	705.7	5.4	102.0	0.8	21.0	0.2	123.0	0.9	17.43	17.41
	KANSAS.....	46,296.4	193.7	4,063.6	18.6	1,383.8	6.5	5,447.4	25.1	11.77	12.97
311	Food.....	12,459.0	30.9	1,172.9	2.5	379.5	0.8	1,552.5	3.2	12.46	10.50
312	Beverage and tobacco products.....	387.6	0.9	-	-	1.1	-	1.1	-	0.28	-
313	Textile mills.....	16.7	0.2	0.4	-	0.8	-	1.2	-	7.31	6.54
314	Textile products.....	120.2	1.3	3.2	-	1.2	-	4.4	-	3.68	3.65
315	Apparel.....	125.1	1.5	14.3	0.2	1.1	-	15.4	0.2	12.35	11.56
316	Leather and allied products.....	81.3	0.3	35.5	0.1	0.1	-	35.6	0.1	43.87	17.09
321	Wood products.....	379.4	3.2	0.4	-	4.9	-	5.4	-	1.41	1.37
322	Paper.....	544.9	3.2	20.1	0.1	56.4	0.3	76.5	0.5	14.04	14.06
323	Printing and related support activities.....	1,680.9	13.1	10.2	0.1	32.0	0.2	42.2	0.3	2.51	2.51
324	Petroleum and coal products.....	2,854.7	2.0	9.0	-	76.0	0.1	85.0	0.1	2.98	2.98
325	Chemicals.....	2,931.4	6.6	208.5	0.5	150.5	0.4	359.0	0.8	12.25	12.68
326	Plastics and rubber products.....	2,432.0	13.2	133.0	0.7	102.6	0.6	235.7	1.3	9.69	9.77
327	Nonmetallic mineral products.....	1,092.5	5.8	9.0	0.1	15.6	0.1	24.6	0.1	2.25	2.56
331	Primary metals.....	344.6	2.6	4.9	-	81.1	0.6	86.0	0.6	24.97	22.47
332	Fabricated metal products.....	1,743.2	14.0	155.3	1.2	123.8	1.1	279.1	2.3	16.01	16.04
333	Machinery.....	3,524.7	21.0	584.5	3.4	91.9	0.5	676.4	4.0	19.19	18.94
334	Computers and electronic products.....	805.7	5.9	246.9	1.6	39.9	0.5	286.8	2.0	35.60	34.51
335	Electrical equipment, appliances, and components.....	1,132.2	5.0	120.4	0.5	46.2	0.2	166.6	0.7	14.71	14.45
336	Transportation equipment.....	12,570.3	53.1	1,309.9	7.6	169.7	1.0	1,479.6	8.6	11.77	16.14
337	Furniture and related products.....	445.7	4.7	2.6	-	1.0	-	3.6	-	0.81	0.85
339	Miscellaneous products.....	624.5	5.2	22.6	0.2	8.2	0.1	30.8	0.2	4.93	4.78
	KENTUCKY.....	86,636.1	288.4	10,199.2	27.2	7,604.6	31.1	17,803.8	58.3	20.55	20.23
311	Food.....	5,582.3	18.8	640.2	1.1	237.6	0.5	877.7	1.7	15.72	8.82
312	Beverage and tobacco products.....	5,204.4	6.7	443.2	0.5	40.6	-	483.8	0.5	9.30	7.84
313	Textile mills.....	215.8	1.5	14.5	0.1	44.3	0.3	58.8	0.4	27.26	25.28
314	Textile products.....	515.2	4.2	15.6	0.1	33.7	0.3	49.3	0.4	9.57	9.08
315	Apparel.....	2,200.0	23.6	171.6	1.8	37.1	0.4	208.7	2.2	9.49	9.16
316	Leather and allied products.....	210.2	1.2	90.9	0.2	14.4	-	105.3	0.2	50.12	15.93
321	Wood products.....	1,238.8	11.3	35.9	0.3	73.8	0.7	109.6	1.0	8.85	8.72
322	Paper.....	2,908.4	10.6	105.3	0.4	249.3	0.8	354.5	1.2	12.19	11.37
323	Printing and related support activities.....	1,632.4	14.8	29.3	0.3	119.4	1.1	148.7	1.3	9.11	9.11
324	Petroleum and coal products.....	2,227.8	1.2	32.0	-	284.8	0.2	316.8	0.2	14.22	14.22
325	Chemicals.....	7,460.9	14.1	1,450.4	2.6	1,516.2	3.2	2,966.5	5.8	39.76	41.31
326	Plastics and rubber products.....	3,362.6	19.7	201.8	1.2	570.2	3.3	772.0	4.5	22.96	22.91
327	Nonmetallic mineral products.....	1,686.1	10.5	257.7	1.4	188.5	1.1	446.3	2.6	26.47	24.22
331	Primary metals.....	5,116.6	15.1	440.2	1.1	1,299.1	3.8	1,739.3	4.9	33.99	32.41
332	Fabricated metal products.....	4,184.0	26.6	198.1	1.2	593.3	3.9	791.4	5.1	18.91	19.33
333	Machinery.....	4,833.8	25.5	822.2	4.2	343.5	1.9	1,165.6	6.2	24.11	24.17
334	Computers and electronic products.....	2,409.2	10.5	1,106.1	3.7	200.3	1.8	1,306.4	5.4	54.22	51.51
335	Electrical equipment, appliances, and components.....	3,902.0	17.9	471.3	2.1	310.6	1.4	781.9	3.5	20.04	19.82
336	Transportation equipment.....	30,311.1	42.4	3,552.8	4.0	1,384.0	5.8	4,936.8	9.8	16.29	23.20
337	Furniture and related products.....	465.9	5.3	6.0	0.1	18.8	0.2	24.8	0.3	5.32	5.97
339	Miscellaneous products.....	968.6	6.9	114.3	0.8	45.1	0.3	159.5	1.1	16.46	16.39

Table 4. Manufacturing Industries, Shipments and Employment Related to Manufactured Exports by State and Industry Subsector: 1997

NAICS industry code	Industry and state	Value of all manufacturers' shipments (million dollars) 1/	All manufacturing employment 1/ (thousand)	Direct exports 2/ (million dollars)	Employment related to direct exports (thousand)	Export supporting shipments (million dollars)	Employment related to supporting shipments (thousand)	Total export related shipments (million dollars)	Total export related employment (thousand)	Export related as percent of all	
										Shipments	Employment
	LOUISIANA.....	80,424.0	165.8	7,527.0	15.3	3,508.6	7.5	11,035.6	22.8	13.72	13.74
311	Food.....	4,938.5	15.9	840.6	1.2	110.0	0.3	950.5	1.5	19.25	9.49
312	Beverage and tobacco products.....	526.9	2.5	0.1	-	1.8	-	2.0	-	0.37	0.37
313	Textile mills.....	8.8	0.1	0.1	-	1.3	-	1.4	-	15.98	18.41
314	Textile products.....	105.1	1.3	2.3	-	3.2	-	5.6	0.1	5.31	5.61
315	Apparel.....	1,744.1	9.3	52.8	0.5	5.8	0.1	58.6	0.6	3.36	6.13
316	Leather and allied products.....	17.6	0.3	1.5	-	-	-	1.5	-	8.49	9.62
321	Wood products.....	1,882.5	9.2	152.9	0.7	111.7	0.5	264.6	1.2	14.05	13.31
322	Paper.....	4,318.2	11.5	577.5	1.3	188.2	0.6	765.8	1.9	17.73	16.50
323	Printing and related support activities.....	345.8	4.2	9.3	0.1	22.5	0.3	31.9	0.4	9.22	9.22
324	Petroleum and coal products.....	26,644.1	10.5	560.3	0.2	418.2	0.2	978.5	0.4	3.67	3.67
325	Chemicals.....	27,286.2	27.6	4,103.2	4.0	2,194.9	2.6	6,298.1	6.6	23.08	23.82
326	Plastics and rubber products.....	756.4	4.8	3.5	-	98.1	0.6	101.7	0.6	13.44	13.41
327	Nonmetallic mineral products.....	776.4	5.4	12.3	0.1	28.7	0.2	41.0	0.3	5.28	5.38
331	Primary metals.....	1,000.2	3.5	82.1	0.3	94.0	0.3	176.1	0.6	17.61	18.49
332	Fabricated metal products.....	2,477.7	19.8	100.9	0.8	145.6	1.2	246.5	2.0	9.95	10.19
333	Machinery.....	1,301.2	8.0	345.7	2.0	40.4	0.3	386.2	2.3	29.68	28.62
334	Computers and electronic products.....	503.2	2.2	64.3	0.4	5.0	-	69.3	0.4	13.77	18.01
335	Electrical equipment, appliances, and components.....	408.6	2.4	153.3	0.7	18.7	0.1	172.0	0.8	42.10	34.19
336	Transportation equipment.....	4,828.8	22.3	408.4	2.4	14.2	0.1	422.6	2.5	8.75	11.15
337	Furniture and related products.....	103.4	1.3	0.9	-	0.2	-	1.2	-	1.15	1.35
339	Miscellaneous products.....	450.5	3.7	54.8	0.4	6.0	-	60.7	0.5	13.48	12.84
	MAINE.....	14,097.6	82.3	1,723.8	8.8	503.2	3.3	2,227.0	12.1	15.80	14.73
311	Food.....	1,070.7	6.0	39.5	0.2	17.6	0.1	57.1	0.3	5.33	4.86
312	Beverage and tobacco products.....	125.6	0.6	0.4	-	0.8	-	1.2	-	0.99	0.99
313	Textile mills.....	475.7	4.5	42.5	0.4	52.4	0.7	94.9	1.0	19.96	22.91
314	Textile products.....	205.3	1.9	22.7	0.1	1.8	-	24.6	0.2	11.97	8.55
315	Apparel.....	49.4	0.8	4.4	0.1	2.4	-	6.8	0.1	13.73	13.54
316	Leather and allied products.....	1,081.4	7.5	206.1	1.4	55.5	0.4	261.5	1.8	24.18	24.42
321	Wood products.....	925.4	7.9	41.9	0.3	48.8	0.3	90.8	0.7	9.81	8.21
322	Paper.....	4,460.4	13.8	406.2	1.3	86.9	0.3	493.1	1.5	11.06	11.21
323	Printing and related support activities.....	284.4	2.8	3.4	-	7.6	0.1	11.0	0.1	3.88	3.88
324	Petroleum and coal products.....	47.8	0.4	-	-	-	-	-	-	0.07	-
325	Chemicals.....	355.9	1.8	31.2	0.3	19.7	0.1	50.9	0.4	14.30	22.51
326	Plastics and rubber products.....	501.9	3.3	16.9	0.1	41.4	0.3	58.3	0.4	11.61	11.69
327	Nonmetallic mineral products.....	162.0	1.3	0.5	-	1.9	-	2.4	-	1.47	1.64
331	Primary metals.....	69.7	0.6	25.9	0.2	5.8	-	31.8	0.2	45.62	42.40
332	Fabricated metal products.....	623.1	4.8	53.3	0.4	45.8	0.4	99.1	0.8	15.90	17.22
333	Machinery.....	476.7	3.2	159.3	0.9	12.9	0.1	172.2	1.0	36.12	30.53
334	Computers and electronic products.....	941.0	5.7	263.2	1.6	50.5	0.3	313.6	1.9	33.33	33.88
335	Electrical equipment, appliances, and components.....	188.2	1.1	61.7	0.3	2.7	-	64.5	0.3	34.25	30.70
336	Transportation equipment.....	1,755.2	11.1	324.6	0.9	47.0	0.1	371.7	1.0	21.18	9.31
337	Furniture and related products.....	166.6	1.7	15.6	0.2	0.5	-	16.0	0.2	9.63	9.35
339	Miscellaneous products.....	131.3	1.6	4.2	0.1	1.3	-	5.5	0.1	4.17	4.22
	MARYLAND.....	36,505.9	164.0	4,309.7	18.7	1,055.2	6.0	5,364.9	24.7	14.69	15.08
311	Food.....	5,910.8	17.5	128.3	0.6	29.1	0.1	157.4	0.8	2.66	4.38
312	Beverage and tobacco products.....	814.6	1.9	0.1	-	2.3	-	2.4	-	0.30	0.30
313	Textile mills.....	216.8	1.7	43.7	0.4	6.8	0.1	50.5	0.4	23.31	25.83
314	Textile products.....	56.0	0.8	1.3	-	1.9	-	3.3	-	5.85	5.81
315	Apparel.....	272.5	3.9	34.2	0.5	5.7	0.1	40.0	0.6	14.67	14.69
316	Leather and allied products.....	354.8	1.3	184.1	0.7	46.3	0.2	230.4	0.8	64.93	62.85
321	Wood products.....	566.6	3.9	4.5	-	4.0	-	8.5	0.1	1.50	1.41
322	Paper.....	1,166.4	7.6	42.9	0.2	60.1	0.4	103.0	0.6	8.83	8.32
323	Printing and related support activities.....	2,040.4	17.5	25.3	0.2	43.1	0.4	68.3	0.6	3.35	3.35
324	Petroleum and coal products.....	369.8	1.1	1.6	-	5.2	-	6.8	-	1.85	1.85
325	Chemicals.....	4,930.4	13.7	211.9	0.7	130.3	0.3	342.2	1.1	6.94	7.85
326	Plastics and rubber products.....	1,415.2	8.9	55.7	0.4	79.4	0.5	135.1	0.9	9.66	9.90
327	Nonmetallic mineral products.....	915.1	5.7	10.3	0.1	10.4	0.1	20.6	0.2	2.25	3.26
331	Primary metals.....	2,550.2	7.6	121.1	0.3	177.2	0.6	298.3	0.9	11.70	12.34
332	Fabricated metal products.....	2,152.1	13.9	333.0	1.6	90.6	0.7	423.6	2.3	19.68	16.42
333	Machinery.....	2,331.5	10.8	585.2	2.7	71.8	0.3	657.0	3.0	28.18	27.88
334	Computers and electronic products.....	4,893.2	24.5	1,466.3	7.3	189.9	1.6	1,656.2	8.8	33.85	36.04
335	Electrical equipment, appliances, and components.....	273.7	2.2	87.2	0.6	34.4	0.3	121.6	0.9	44.43	40.47
336	Transportation equipment.....	4,184.4	9.5	891.0	1.6	61.1	0.3	952.0	1.9	22.75	20.46
337	Furniture and related products.....	443.9	4.3	5.5	0.1	1.3	-	6.8	0.1	1.53	1.78
339	Miscellaneous products.....	647.5	5.8	76.4	0.6	4.5	-	80.9	0.7	12.01	11.46

Table 4. Manufacturing Industries, Shipments and Employment Related to Manufactured Exports by State and Industry Subsector: 1997

NAICS industry code	Industry and state	Value of all manufacturers' shipments (million dollars) 1/	All manufacturing employment 1/ (thousand)	Direct exports 2/ (million dollars)	Employment related to direct exports (thousand)	Export supporting shipments (million dollars)	Employment related to supporting shipments (thousand)	Total export related shipments (million dollars)	Total export related employment (thousand)	Export related as percent of all	
										Shipments	Employment
	MASSACHUSETTS.....	77,876.6	417.1	13,175.1	65.8	6,381.0	37.8	19,556.1	103.6	25.11	24.84
311	Food.....	4,581.1	21.1	37.2	0.2	30.6	0.1	67.8	0.3	1.48	1.48
312	Beverage and tobacco products.....	1,201.2	2.7	17.5	-	3.4	-	20.9	-	1.74	1.74
313	Textile mills.....	1,843.2	12.5	214.5	1.6	244.3	1.8	458.7	3.5	24.89	27.69
314	Textile products.....	542.1	4.9	25.7	0.2	4.6	-	30.3	0.3	5.59	5.33
315	Apparel.....	912.4	10.4	82.8	0.9	12.8	0.1	95.6	1.1	10.48	10.22
316	Leather and allied products.....	520.3	3.8	134.3	1.0	34.6	0.2	169.0	1.2	32.48	32.17
321	Wood products.....	398.2	2.9	3.6	-	19.2	0.2	22.7	0.2	5.71	6.29
322	Paper.....	4,041.6	19.3	517.0	2.4	485.5	2.1	1,002.4	4.5	24.80	23.54
323	Printing and related support activities.....	2,729.9	23.1	62.3	0.5	164.0	1.4	226.3	1.9	8.29	8.29
324	Petroleum and coal products.....	363.2	1.3	2.8	-	15.0	0.1	17.8	0.1	4.91	4.91
325	Chemicals.....	6,436.9	22.0	957.4	2.9	820.0	2.9	1,777.4	5.8	27.61	26.38
326	Plastics and rubber products.....	3,664.2	23.2	261.5	1.7	473.8	3.0	735.3	4.7	20.07	20.10
327	Nonmetallic mineral products.....	1,246.9	8.5	97.6	0.7	72.3	0.5	169.9	1.2	13.62	14.35
331	Primary metals.....	1,848.8	6.3	269.3	0.7	489.1	1.8	758.4	2.6	41.02	40.61
332	Fabricated metal products.....	6,372.3	47.3	422.4	2.7	1,143.8	10.8	1,566.2	13.5	24.58	28.60
333	Machinery.....	5,879.4	33.2	2,093.6	11.7	298.1	1.9	2,391.6	13.6	40.68	41.04
334	Computers and electronic products.....	23,336.8	105.5	5,281.5	25.4	1,448.5	7.5	6,730.0	33.0	28.84	31.23
335	Electrical equipment, appliances, and components.....	3,035.1	16.9	480.5	2.7	388.1	2.1	868.6	4.8	28.62	28.32
336	Transportation equipment.....	2,950.3	13.3	1,349.1	4.8	150.9	0.6	1,500.1	5.4	50.85	40.51
337	Furniture and related products.....	814.2	6.8	11.8	0.1	11.9	0.1	23.7	0.2	2.91	3.29
339	Miscellaneous products.....	5,158.5	32.1	852.7	5.3	70.5	0.4	923.2	5.8	17.90	17.97
	MICHIGAN.....	214,900.7	833.4	25,140.2	100.2	19,212.1	90.8	44,352.3	191.0	20.64	22.91
311	Food.....	10,624.2	35.5	243.3	0.8	116.7	0.4	360.0	1.2	3.39	3.34
312	Beverage and tobacco products.....	1,533.3	3.1	23.1	-	19.2	-	42.4	0.1	2.76	2.76
313	Textile mills.....	98.9	0.5	6.5	-	62.0	0.3	68.4	0.3	69.18	60.50
314	Textile products.....	236.9	2.5	29.8	0.3	42.6	0.4	72.3	0.7	30.53	29.65
315	Apparel.....	220.2	1.6	25.3	0.2	21.0	0.1	46.3	0.3	21.01	19.16
316	Leather and allied products.....	655.9	3.1	140.7	0.6	70.8	0.3	211.5	0.9	32.24	28.78
321	Wood products.....	2,033.7	13.7	86.4	0.5	146.5	1.0	232.9	1.5	11.45	11.10
322	Paper.....	4,878.2	19.7	268.3	1.1	676.6	2.7	944.9	3.8	19.37	19.14
323	Printing and related support activities.....	3,002.5	25.3	46.3	0.4	248.5	2.1	294.8	2.5	9.82	9.82
324	Petroleum and coal products.....	1,235.4	1.8	94.1	0.1	123.9	0.2	218.0	0.3	17.65	17.65
325	Chemicals.....	11,477.1	33.2	1,198.0	3.6	2,571.9	7.0	3,769.9	10.6	32.85	31.91
326	Plastics and rubber products.....	9,546.7	67.7	741.3	5.2	1,088.8	7.6	1,830.1	12.9	19.17	19.01
327	Nonmetallic mineral products.....	3,821.3	18.0	330.7	1.7	391.4	2.0	722.1	3.8	18.98	21.08
331	Primary metals.....	8,984.0	37.7	867.6	2.9	5,728.1	21.2	6,595.7	24.1	73.42	63.92
332	Fabricated metal products.....	13,725.3	104.4	730.9	5.4	2,989.7	23.0	3,720.6	28.4	27.11	27.25
333	Machinery.....	18,100.4	106.4	3,396.6	18.3	1,248.8	6.7	4,645.4	25.0	25.66	23.53
334	Computers and electronic products.....	4,999.3	25.4	774.3	3.8	223.9	1.2	998.2	5.0	19.97	19.64
335	Electrical equipment, appliances, and components.....	2,553.9	14.2	717.5	3.2	243.2	1.8	960.7	4.9	37.62	34.66
336	Transportation equipment.....	108,942.3	268.0	14,708.1	47.0	3,029.4	11.3	17,737.5	58.4	16.28	21.78
337	Furniture and related products.....	5,810.7	33.5	295.7	1.7	39.1	0.3	334.8	2.0	5.76	5.93
339	Miscellaneous products.....	2,420.4	18.0	415.9	3.2	130.0	1.0	545.9	4.2	22.55	23.29
	MINNESOTA.....	76,244.9	382.5	7,395.8	40.2	4,147.0	26.0	11,542.8	66.2	15.13	17.31
311	Food.....	14,806.6	44.0	454.4	1.3	243.5	0.6	697.9	1.9	4.71	4.31
312	Beverage and tobacco products.....	898.2	2.1	2.2	-	5.0	-	7.2	0.0	0.80	0.80
313	Textile mills.....	107.1	0.7	20.9	0.1	6.6	-	27.5	0.2	25.70	25.32
314	Textile products.....	122.2	1.7	5.0	0.1	2.5	-	7.5	0.1	6.11	5.58
315	Apparel.....	143.3	2.4	18.7	0.3	2.1	-	20.7	0.3	14.48	12.15
316	Leather and allied products.....	376.0	2.2	65.0	0.4	17.8	0.1	82.8	0.4	22.03	20.16
321	Wood products.....	2,499.1	15.4	61.9	0.4	40.9	0.3	102.8	0.6	4.11	4.12
322	Paper.....	4,049.6	15.3	87.3	0.4	318.6	1.1	405.9	1.5	10.02	9.77
323	Printing and related support activities.....	4,308.1	35.6	37.0	0.3	114.7	0.9	151.7	1.3	3.52	3.52
324	Petroleum and coal products.....	3,451.2	2.1	4.1	-	69.5	-	73.6	-	2.13	2.13
325	Chemicals.....	2,826.7	8.7	123.7	0.4	147.5	0.5	271.3	0.9	9.60	10.23
326	Plastics and rubber products.....	2,846.0	20.4	258.7	1.9	329.2	2.4	587.9	4.2	20.66	20.67
327	Nonmetallic mineral products.....	2,271.9	13.0	89.0	0.5	53.1	0.3	142.2	0.8	6.26	6.49
331	Primary metals.....	1,132.4	7.1	65.1	0.3	294.4	1.6	359.5	1.9	31.75	27.15
332	Fabricated metal products.....	6,708.9	49.3	459.7	2.8	769.8	6.8	1,229.5	9.6	18.33	19.54
333	Machinery.....	7,387.4	39.3	1,502.3	8.0	233.6	1.4	1,736.0	9.4	23.50	24.02
334	Computers and electronic products.....	10,951.8	60.8	2,861.2	16.4	1,144.0	7.5	4,005.2	23.9	36.37	39.29
335	Electrical equipment, appliances, and components.....	1,880.4	11.4	214.0	1.3	211.0	1.3	425.0	2.6	22.60	22.79
336	Transportation equipment.....	5,012.3	14.6	555.9	1.4	91.8	0.6	647.7	2.0	12.92	13.74
337	Furniture and related products.....	1,280.8	11.6	31.8	0.3	5.8	0.1	37.5	0.4	2.93	3.07
339	Miscellaneous products.....	3,184.6	24.9	477.9	3.8	45.5	0.4	523.4	4.1	16.44	16.47

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										Shipments	Employment
	MISSISSIPPI.....	39,658.3	227.8	4,708.8	16.8	2,078.0	7.8	6,786.8	24.6	17.11	10.78
311	Food.....	4,919.9	26.9	159.4	0.7	63.2	0.2	222.6	0.9	4.52	3.41
312	Beverage and tobacco products.....	205.8	0.6	-	-	1.0	-	1.0	-	0.49	-
313	Textile mills.....	483.4	2.6	89.1	0.5	70.6	0.4	159.6	0.9	33.02	33.52
314	Textile products.....	392.9	3.3	17.7	0.2	5.4	0.1	23.1	0.2	5.89	6.42
315	Apparel.....	1,651.4	20.4	116.8	1.5	19.5	0.2	136.3	1.8	8.25	8.68
316	Leather and allied products.....	40.7	0.4	0.6	-	1.2	-	1.8	-	4.51	5.11
321	Wood products.....	3,335.5	18.5	245.4	1.1	159.0	0.8	404.5	1.9	12.13	10.43
322	Paper.....	2,618.9	9.1	409.2	1.1	165.8	0.5	575.0	1.7	21.96	18.30
323	Printing and related support activities.....	548.0	4.4	2.1	-	21.4	0.2	23.5	0.2	4.29	4.29
324	Petroleum and coal products.....	2,899.8	2.0	1,501.9	1.0	369.1	0.3	1,871.0	1.3	64.52	64.52
325	Chemicals.....	3,489.2	7.7	610.5	1.1	564.5	1.0	1,175.0	2.1	33.68	27.01
326	Plastics and rubber products.....	1,923.6	12.0	102.0	0.6	124.7	0.8	226.7	1.4	11.79	11.78
327	Nonmetallic mineral products.....	729.4	5.1	16.5	0.1	27.4	0.2	43.9	0.3	6.02	5.21
331	Primary metals.....	948.0	4.3	153.7	0.5	184.2	1.0	337.9	1.5	35.65	34.08
332	Fabricated metal products.....	2,151.9	14.9	87.0	0.5	124.6	1.1	211.6	1.6	9.83	10.94
333	Machinery.....	2,480.9	15.6	352.8	2.3	61.2	0.4	414.0	2.7	16.69	17.32
334	Computers and electronic products.....	628.8	4.3	54.6	0.4	3.9	-	58.5	0.5	9.31	10.83
335	Electrical equipment, appliances, and components.....	3,078.7	14.9	273.6	1.2	58.6	0.3	332.2	1.5	10.79	10.34
336	Transportation equipment.....	3,680.8	25.7	306.0	1.7	44.2	0.3	350.3	2.0	9.52	7.64
337	Furniture and related products.....	2,917.7	30.3	156.6	1.7	3.2	-	159.9	1.7	5.48	5.57
339	Miscellaneous products.....	532.9	4.9	53.3	0.5	5.1	-	58.4	0.5	10.96	10.46
	MISSOURI.....	93,115.5	371.4	12,089.9	44.2	5,818.2	31.5	17,908.1	75.6	19.23	20.34
311	Food.....	13,106.8	39.9	403.8	1.3	244.6	0.6	648.4	1.9	4.95	4.67
312	Beverage and tobacco products.....	2,213.4	3.9	10.1	-	10.3	-	20.4	-	0.92	0.92
313	Textile mills.....	96.9	0.7	5.6	-	19.2	0.2	24.8	0.2	25.56	29.35
314	Textile products.....	351.4	3.3	3.2	-	28.7	0.3	31.9	0.3	9.07	9.84
315	Apparel.....	700.1	12.8	160.7	3.0	31.2	0.6	191.9	3.5	27.40	27.60
316	Leather and allied products.....	314.1	4.0	15.5	0.2	13.6	0.1	29.2	0.3	9.28	8.53
321	Wood products.....	1,030.1	9.7	76.5	0.6	41.5	0.4	118.0	1.0	11.45	10.23
322	Paper.....	2,986.3	12.8	85.0	0.4	148.7	0.6	233.7	1.0	7.83	7.87
323	Printing and related support activities.....	2,602.4	22.0	56.1	0.5	152.1	1.3	208.2	1.8	7.95	7.95
324	Petroleum and coal products.....	533.3	1.4	37.2	0.1	16.1	-	53.3	0.1	10.00	10.00
325	Chemicals.....	10,558.7	20.9	1,477.7	2.7	938.0	2.4	2,415.7	5.1	22.88	24.51
326	Plastics and rubber products.....	3,236.0	21.3	152.4	1.0	551.3	3.6	703.7	4.6	21.74	21.70
327	Nonmetallic mineral products.....	1,786.3	11.2	86.3	0.6	53.1	0.3	139.3	0.9	7.80	8.07
331	Primary metals.....	2,609.7	12.6	224.2	0.8	812.1	3.6	1,036.3	4.3	39.71	34.32
332	Fabricated metal products.....	4,832.4	39.2	301.2	2.1	678.7	6.2	979.8	8.4	20.28	21.35
333	Machinery.....	4,866.2	31.5	780.2	5.1	311.0	2.1	1,091.2	7.3	22.42	23.05
334	Computers and electronic products.....	3,126.0	14.9	712.1	3.5	317.6	1.8	1,029.8	5.3	32.94	35.92
335	Electrical equipment, appliances, and components.....	3,109.2	19.0	352.8	2.2	148.6	0.9	501.4	3.1	16.13	16.31
336	Transportation equipment.....	32,218.9	64.8	6,926.9	18.1	1,236.9	5.7	8,163.8	23.8	25.34	36.67
337	Furniture and related products.....	1,225.2	11.5	24.3	0.2	25.3	0.2	49.6	0.5	4.05	4.09
339	Miscellaneous products.....	1,611.9	14.0	198.1	1.7	39.6	0.4	237.8	2.1	14.75	14.99
	MONTANA.....	4,866.3	19.6	489.5	1.8	55.2	0.2	544.7	2.0	11.19	10.31
311	Food.....	466.6	2.0	8.2	-	2.4	-	10.6	-	2.26	1.77
312	Beverage and tobacco products.....	83.6	0.3	-	-	0.1	-	0.1	-	0.12	-
313	Textile mills.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
314	Textile products.....	19.4	0.3	0.9	-	0.1	-	1.0	-	5.20	5.22
315	Apparel.....	3.6	0.1	0.4	-	-	-	0.4	-	10.09	12.80
316	Leather and allied products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
321	Wood products.....	1,008.6	5.2	31.2	0.2	18.8	0.1	50.1	0.3	4.96	4.98
322	Paper.....	246.4	0.8	89.9	0.3	4.8	-	94.7	0.3	38.44	36.26
323	Printing and related support activities.....	67.9	1.0	-	-	0.5	-	0.5	-	0.79	0.79
324	Petroleum and coal products.....	1,517.7	0.9	4.0	-	7.9	-	11.9	-	0.79	0.79
325	Chemicals.....	200.1	0.5	31.5	0.1	11.2	-	42.7	0.1	21.34	24.85
326	Plastics and rubber products.....	23.8	0.2	0.1	-	0.6	-	0.7	-	2.88	2.90
327	Nonmetallic mineral products.....	166.3	1.1	9.9	0.1	2.0	-	12.0	0.1	7.20	7.81
331	Primary metals.....	427.6	1.0	218.9	0.3	2.5	-	221.4	0.3	51.77	27.56
332	Fabricated metal products.....	115.9	1.2	5.0	0.1	1.7	-	6.7	0.1	5.81	8.03
333	Machinery.....	234.2	1.6	58.1	0.4	1.3	-	59.4	0.4	25.38	27.25
334	Computers and electronic products.....	42.8	0.4	4.2	-	0.2	-	4.3	-	10.13	8.51
335	Electrical equipment, appliances, and components.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
336	Transportation equipment.....	58.7	0.6	4.2	-	-	-	4.2	-	7.18	7.26
337	Furniture and related products.....	52.1	0.8	0.1	-	0.1	-	0.1	-	0.28	0.27
339	Miscellaneous products.....	120.9	1.4	22.2	0.3	0.8	-	23.0	0.3	19.04	19.30

Table 4. Manufacturing Industries, Shipments and Employment Related to Manufactured Exports by State and Industry Subsector: 1997

NAICS industry code	Industry and state	Value of all manufacturers' shipments (million dollars) 1/	All manufacturing employment 1/ (thousand)	Direct exports 2/ (million dollars)	Employment related to direct exports (thousand)	Export supporting shipments (million dollars)	Employment related to supporting shipments (thousand)	Total export related shipments (million dollars)	Total export related employment (thousand)	Export related as percent of all	
										Shipments	Employment
311	NEBRASKA.....	27,859.2	106.7	2,936.9	11.5	1,274.9	4.5	4,211.8	16.0	15.12	15.04
312	Food.....	14,323.7	33.7	1,431.8	3.4	745.7	1.5	2,177.5	4.9	15.20	14.64
312	Beverage and tobacco products.....	220.0	0.5	-	-	0.9	-	0.9	-	0.43	0.44
313	Textile mills.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
314	Textile products.....	41.3	0.6	1.1	-	1.1	-	2.2	-	5.26	5.65
315	Apparel.....	118.8	1.0	9.2	0.1	1.2	-	10.4	0.1	8.77	8.96
316	Leather and allied products.....	220.8	0.5	40.6	0.1	12.4	-	53.0	0.1	24.02	22.97
321	Wood products.....	326.2	2.5	7.8	0.1	4.7	-	12.5	0.1	3.83	3.94
322	Paper.....	295.5	1.4	9.9	-	45.5	0.2	55.4	0.3	18.75	18.75
323	Printing and related support activities.....	600.4	5.5	5.1	-	28.7	0.3	33.8	0.3	5.63	5.63
324	Petroleum and coal products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
325	Chemicals.....	1,840.9	2.8	41.9	0.1	91.2	0.1	133.0	0.2	7.23	7.72
326	Plastics and rubber products.....	888.6	6.6	37.5	0.3	58.7	0.4	96.2	0.7	10.83	10.83
327	Nonmetallic mineral products.....	404.0	2.4	1.1	-	6.1	-	7.2	0.1	1.78	2.49
331	Primary metals.....	314.2	1.1	22.5	-	80.0	0.4	102.5	0.4	32.64	36.23
332	Fabricated metal products.....	1,260.5	9.5	111.6	0.9	60.3	0.6	171.9	1.4	13.64	15.09
333	Machinery.....	1,882.8	11.8	439.9	2.7	54.9	0.4	494.8	3.1	26.28	26.42
334	Computers and electronic products.....	947.0	6.0	116.9	0.8	23.2	0.2	140.1	1.0	14.79	16.72
335	Electrical equipment, appliances, and components.....	1,190.1	5.1	163.8	0.7	13.3	0.1	177.2	0.8	14.89	14.85
336	Transportation equipment.....	1,497.0	7.6	231.9	1.1	22.1	0.1	254.0	1.2	16.97	16.36
337	Furniture and related products.....	379.8	3.1	25.2	0.2	0.9	-	26.1	0.2	6.86	6.10
339	Miscellaneous products.....	1,081.8	4.7	231.9	0.9	13.9	0.1	245.9	0.9	22.73	19.80
	NEVADA.....	6,361.8	37.8	608.7	3.9	75.2	0.4	683.8	4.3	10.75	11.38
311	Food.....	696.2	2.9	8.5	-	0.5	-	9.1	-	1.30	0.98
312	Beverage and tobacco products.....	195.7	0.5	0.2	-	-	-	0.2	-	0.11	0.17
313	Textile mills.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
314	Textile products.....	22.3	0.4	7.1	0.1	0.1	-	7.2	0.1	32.33	33.11
315	Apparel.....	13.4	0.3	1.0	-	-	-	1.1	-	8.05	7.21
316	Leather and allied products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
321	Wood products.....	140.6	1.1	0.5	-	0.3	-	0.8	-	0.59	0.58
322	Paper.....	164.1	0.6	6.2	-	0.3	-	6.4	-	3.90	3.90
323	Printing and related support activities.....	444.4	2.9	8.4	0.1	2.8	-	11.2	0.1	2.52	2.52
324	Petroleum and coal products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
325	Chemicals.....	409.3	1.2	53.0	0.2	8.2	-	61.2	0.2	14.95	14.94
326	Plastics and rubber products.....	513.6	3.0	23.0	0.1	8.5	0.1	31.5	0.2	6.13	6.14
327	Nonmetallic mineral products.....	779.3	3.9	8.9	-	2.8	-	11.6	0.1	1.49	1.67
331	Primary metals.....	493.3	1.5	105.5	0.2	30.0	0.1	135.5	0.3	27.46	21.67
332	Fabricated metal products.....	517.3	4.3	50.1	0.4	9.5	0.1	59.6	0.5	11.52	11.47
333	Machinery.....	165.4	1.4	39.4	0.3	1.4	-	40.8	0.3	24.67	25.24
334	Computers and electronic products.....	456.8	3.3	129.5	1.0	4.9	-	134.4	1.0	29.42	29.99
335	Electrical equipment, appliances, and components.....	121.3	0.8	8.9	0.1	0.7	-	9.6	0.1	7.93	7.64
336	Transportation equipment.....	150.2	1.6	44.9	0.5	1.4	-	46.4	0.5	30.86	30.13
337	Furniture and related products.....	198.9	1.6	4.3	-	0.1	-	4.4	-	2.21	2.42
339	Miscellaneous products.....	823.3	6.3	109.0	0.8	3.6	-	112.5	0.9	13.67	13.50
	NEW HAMPSHIRE.....	19,813.1	98.9	3,218.2	14.3	1,908.9	11.1	5,127.1	25.4	25.88	25.71
311	Food.....	550.7	2.1	2.1	-	64.6	0.2	66.7	0.2	12.11	11.29
312	Beverage and tobacco products.....	424.7	0.8	0.5	-	1.2	-	1.7	-	0.40	0.40
313	Textile mills.....	234.0	2.4	31.2	0.3	36.1	0.4	67.3	0.7	28.76	30.34
314	Textile products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
315	Apparel.....	116.2	1.6	11.5	0.2	2.3	-	13.8	0.2	11.86	13.23
316	Leather and allied products.....	392.2	1.6	196.6	0.4	34.6	0.1	231.2	0.4	58.96	26.53
321	Wood products.....	476.1	3.7	47.4	0.3	30.9	0.2	78.3	0.6	16.44	15.33
322	Paper.....	882.4	3.8	106.3	0.5	115.6	0.5	221.9	1.0	25.15	25.04
323	Printing and related support activities.....	659.6	5.1	5.5	-	47.0	0.4	52.5	0.4	7.97	7.97
324	Petroleum and coal products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
325	Chemicals.....	428.9	1.8	50.9	0.2	107.0	0.4	157.9	0.6	36.81	31.63
326	Plastics and rubber products.....	951.9	7.1	64.8	0.5	131.7	1.0	196.5	1.5	20.64	20.95
327	Nonmetallic mineral products.....	390.1	2.2	21.7	0.2	28.7	0.2	50.3	0.3	12.90	15.71
331	Primary metals.....	419.7	3.5	26.3	0.2	94.3	0.7	120.6	0.9	28.73	25.16
332	Fabricated metal products.....	1,470.4	13.0	105.4	0.9	217.0	2.1	322.3	3.0	21.92	22.89
333	Machinery.....	1,811.3	10.7	556.8	3.2	66.0	0.4	622.8	3.6	34.38	34.07
334	Computers and electronic products.....	8,323.7	22.9	1,759.7	5.9	736.8	3.3	2,496.5	9.2	29.99	40.29
335	Electrical equipment, appliances, and components.....	1,010.5	5.6	129.9	0.7	152.3	0.8	282.2	1.5	27.93	27.80
336	Transportation equipment.....	244.4	2.0	22.9	0.2	20.5	0.2	43.5	0.4	17.79	18.23
337	Furniture and related products.....	137.9	1.5	1.7	-	2.1	-	3.8	0.1	2.73	3.29
339	Miscellaneous products.....	741.0	6.4	69.3	0.6	17.1	0.1	86.4	0.8	11.66	11.77

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NAICS industry code	Industry and state	Value of all manufacturers' shipments (million dollars) 1/	All manufacturing employment 1/ (thousand)	Direct exports 2/ (million dollars)	Employment related to direct exports (thousand)	Export supporting shipments (million dollars)	Employment related to supporting shipments (thousand)	Total export related shipments (million dollars)	Total export related employment (thousand)	Export related as percent of all	
										Shipments	Employment
	NEW JERSEY.....	97,060.8	409.8	8,945.7	38.7	4,526.4	20.7	13,472.1	59.4	13.88	14.49
311	Food.....	7,888.6	29.3	417.4	1.4	68.1	0.2	485.5	1.6	6.15	5.55
312	Beverage and tobacco products.....	2,303.9	3.7	15.7	-	3.6	-	19.3	-	0.84	0.84
313	Textile mills.....	1,244.1	9.1	142.5	1.1	280.9	2.1	423.4	3.3	34.03	36.07
314	Textile products.....	597.2	6.0	22.8	0.2	14.3	0.2	37.1	0.4	6.21	6.40
315	Apparel.....	2,457.1	22.6	346.5	3.2	48.9	0.5	395.4	3.7	16.09	16.28
316	Leather and allied products.....	323.5	2.6	32.1	0.3	12.3	0.1	44.4	0.4	13.73	13.50
321	Wood products.....	406.4	2.8	17.5	0.1	8.0	0.1	25.5	0.2	6.26	6.41
322	Paper.....	3,210.8	17.1	277.4	1.5	279.2	1.4	556.6	3.0	17.34	17.31
323	Printing and related support activities.....	3,985.7	32.2	44.8	0.4	130.0	1.1	174.8	1.4	4.39	4.39
324	Petroleum and coal products.....	8,043.8	4.0	136.6	0.1	260.5	0.1	397.1	0.2	4.94	4.94
325	Chemicals.....	29,189.9	61.0	2,930.7	6.2	1,667.0	3.4	4,597.7	9.7	15.75	15.83
326	Plastics and rubber products.....	4,703.2	33.2	241.3	1.7	368.9	2.6	610.2	4.3	12.97	13.09
327	Nonmetallic mineral products.....	2,144.9	14.4	84.2	0.7	111.0	0.8	195.2	1.5	9.11	10.37
331	Primary metals.....	2,747.5	10.7	348.7	1.2	328.5	1.4	677.2	2.6	24.65	24.08
332	Fabricated metal products.....	5,282.0	39.0	287.9	2.0	406.4	3.3	694.4	5.3	13.15	13.63
333	Machinery.....	4,187.2	25.9	716.0	4.3	129.5	0.8	845.6	5.2	20.19	20.00
334	Computers and electronic products.....	6,742.3	39.1	1,065.0	6.4	195.7	1.3	1,260.6	7.7	18.70	19.72
335	Electrical equipment, appliances, and components.....	1,598.0	10.9	277.5	1.9	95.5	0.7	373.0	2.5	23.34	23.37
336	Transportation equipment.....	5,119.3	10.7	910.0	1.5	56.8	0.3	966.8	1.8	18.88	16.82
337	Furniture and related products.....	1,008.3	8.9	11.6	0.1	1.0	-	12.6	0.1	1.25	1.37
339	Miscellaneous products.....	3,877.0	26.6	619.5	4.1	60.3	0.4	679.7	4.5	17.53	17.09
	NEW MEXICO.....	17,906.1	39.7	6,205.4	6.5	1,752.0	5.4	7,957.3	11.9	44.44	30.03
311	Food.....	977.0	4.1	31.1	0.1	9.9	0.1	41.0	0.1	4.20	2.72
312	Beverage and tobacco products.....	99.1	0.2	-	-	3.6	-	3.6	-	3.63	-
313	Textile mills.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
314	Textile products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
315	Apparel.....	292.1	1.8	44.7	0.3	3.2	-	47.9	0.4	16.39	19.51
316	Leather and allied products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
321	Wood products.....	193.1	1.5	2.9	-	29.2	0.2	32.1	0.2	16.63	15.54
322	Paper.....	80.2	0.5	2.0	-	1.5	-	3.4	-	4.26	4.61
323	Printing and related support activities.....	119.6	1.4	0.8	-	33.5	0.4	34.3	0.4	28.69	28.69
324	Petroleum and coal products.....	1,255.9	0.7	0.8	-	133.0	0.1	133.8	0.1	10.66	10.65
325	Chemicals.....	197.8	1.0	37.3	0.2	60.2	0.3	97.5	0.5	49.28	50.03
326	Plastics and rubber products.....	82.0	0.6	7.9	0.1	23.0	0.2	30.9	0.2	37.66	37.79
327	Nonmetallic mineral products.....	378.5	2.5	12.2	0.1	33.8	0.3	46.0	0.4	12.16	14.11
331	Primary metals.....	694.7	1.3	106.9	0.1	239.0	0.4	345.9	0.6	49.80	44.34
332	Fabricated metal products.....	261.5	2.9	8.9	0.1	108.5	1.5	117.4	1.6	44.90	54.39
333	Machinery.....	135.6	1.1	28.2	0.2	16.2	0.2	44.4	0.4	32.72	34.76
334	Computers and electronic products.....	11,949.2	11.0	5,793.5	4.4	993.6	1.2	6,787.1	5.6	56.80	51.06
335	Electrical equipment, appliances, and components.....	178.5	1.0	38.5	0.2	32.1	0.2	70.6	0.4	39.55	42.32
336	Transportation equipment.....	402.1	2.3	60.3	0.3	20.7	0.2	81.0	0.5	20.14	22.04
337	Furniture and related products.....	58.4	1.0	6.9	0.1	0.6	-	7.5	0.1	12.84	12.88
339	Miscellaneous products.....	539.0	4.4	21.8	0.2	8.9	0.1	30.7	0.3	5.69	7.67
	NEW YORK.....	146,720.2	785.9	22,492.6	110.1	8,430.5	45.1	30,923.1	155.2	21.08	19.74
311	Food.....	13,717.8	49.1	269.6	0.9	75.0	0.3	344.6	1.2	2.51	2.39
312	Beverage and tobacco products.....	2,732.8	8.0	22.9	0.1	14.8	-	37.8	0.1	1.38	1.38
313	Textile mills.....	2,986.0	14.9	202.8	1.2	311.6	1.9	514.4	3.0	17.23	20.47
314	Textile products.....	1,066.8	11.1	105.7	1.1	13.9	0.2	119.6	1.2	11.21	11.13
315	Apparel.....	9,644.9	91.5	849.9	8.2	148.6	1.4	998.5	9.7	10.35	10.55
316	Leather and allied products.....	625.2	5.7	72.5	0.7	36.7	0.3	109.3	1.0	17.47	17.39
321	Wood products.....	1,333.6	10.4	135.0	0.9	40.7	0.3	175.7	1.2	13.17	11.76
322	Paper.....	5,139.7	27.1	322.6	1.7	472.5	2.4	795.1	4.1	15.47	15.12
323	Printing and related support activities.....	6,348.3	50.3	122.8	1.0	235.0	1.9	357.8	2.8	5.64	5.64
324	Petroleum and coal products.....	800.6	1.7	7.1	-	103.6	0.2	110.7	0.2	13.83	13.83
325	Chemicals.....	20,544.5	65.3	4,040.4	13.2	1,113.2	3.2	5,153.6	16.4	25.08	25.18
326	Plastics and rubber products.....	5,178.8	37.8	429.7	3.1	404.4	3.0	834.1	6.1	16.11	16.26
327	Nonmetallic mineral products.....	3,611.4	20.5	410.5	2.5	255.6	1.5	666.2	4.0	18.45	19.37
331	Primary metals.....	5,546.0	16.8	690.1	1.8	1,475.3	4.6	2,165.5	6.4	39.05	37.89
332	Fabricated metal products.....	8,267.3	67.7	697.8	5.1	1,122.8	10.3	1,820.6	15.4	22.02	22.72
333	Machinery.....	17,072.0	70.9	5,766.3	24.1	545.0	2.5	6,311.3	26.7	36.97	37.63
334	Computers and electronic products.....	15,113.7	86.2	4,135.9	23.4	1,221.1	7.0	5,357.0	30.4	35.44	35.22
335	Electrical equipment, appliances, and components.....	4,950.5	25.0	890.1	4.5	423.9	2.2	1,314.0	6.7	26.54	26.92
336	Transportation equipment.....	12,040.2	44.4	2,288.9	8.3	300.4	1.1	2,589.3	9.4	21.51	21.16
337	Furniture and related products.....	2,111.9	21.8	74.2	0.8	8.1	0.1	82.4	0.9	3.90	3.95
339	Miscellaneous products.....	7,888.3	59.5	957.6	7.4	108.1	0.8	1,065.8	8.2	13.51	13.75

Table 4. Manufacturing Industries, Shipments and Employment Related to Manufactured Exports by State and Industry Subsector: 1997

NAICS industry code	Industry and state	Value of all manufacturers' shipments (million dollars) 1/	All manufacturing employment 1/ (thousand)	Direct exports 2/ (million dollars)	Employment related to direct exports (thousand)	Export supporting shipments (million dollars)	Employment related to supporting shipments (thousand)	Total export related shipments (million dollars)	Total export related employment (thousand)	Export related as percent of all	
										Shipments	Employment
	NORTH CAROLINA.....	161,900.5	773.5	17,513.8	77.2	11,499.2	55.7	29,013.0	132.9	17.92	17.17
311	Food.....	11,634.8	52.9	503.9	1.6	268.8	0.9	772.7	2.5	6.64	4.81
312	Beverage and tobacco products.....	17,631.9	15.7	1,210.2	1.0	114.0	0.1	1,324.2	1.1	7.51	6.86
313	Textile mills.....	17,364.7	113.2	1,562.4	10.8	1,866.0	12.1	3,428.4	23.0	19.74	20.27
314	Textile products.....	2,769.4	23.1	141.4	1.2	66.5	0.6	207.9	1.8	7.51	7.62
315	Apparel.....	7,234.7	72.8	1,038.4	10.0	170.0	1.7	1,208.4	11.7	16.70	16.04
316	Leather and allied products.....	403.7	3.4	23.5	0.2	18.4	0.1	41.9	0.3	10.38	9.77
321	Wood products.....	4,780.4	33.4	206.1	1.3	285.7	1.8	491.8	3.2	10.29	9.53
322	Paper.....	5,141.8	21.2	622.1	2.5	817.2	3.2	1,439.3	5.7	27.99	26.91
323	Printing and related support activities.....	2,213.9	19.8	23.9	0.2	217.7	2.0	241.6	2.2	10.97	10.97
324	Petroleum and coal products.....	311.5	0.8	11.7	-	17.0	-	28.7	0.1	9.21	9.20
325	Chemicals.....	22,251.0	40.0	2,037.1	4.1	2,612.0	6.8	4,649.1	10.9	20.89	27.33
326	Plastics and rubber products.....	7,494.1	45.1	577.2	3.5	693.9	4.2	1,271.1	7.7	16.96	17.06
327	Nonmetallic mineral products.....	3,968.6	22.4	558.6	2.8	297.6	1.7	856.2	4.5	21.33	19.58
331	Primary metals.....	1,975.2	7.9	293.9	1.2	887.2	3.6	1,181.1	4.8	59.79	60.30
332	Fabricated metal products.....	6,053.5	41.7	392.4	2.8	759.8	5.9	1,152.2	8.7	19.03	20.82
333	Machinery.....	8,697.5	42.2	1,707.3	8.3	365.1	1.9	2,072.4	10.2	23.83	24.19
334	Computers and electronic products.....	16,552.4	51.2	3,404.9	10.2	1,065.3	4.1	4,470.3	14.3	27.01	27.91
335	Electrical equipment, appliances, and components.....	6,914.7	34.4	1,306.4	6.4	583.7	2.9	1,890.1	9.2	27.33	26.84
336	Transportation equipment.....	8,657.8	32.6	1,403.4	4.8	299.6	1.2	1,703.0	6.0	19.67	18.38
337	Furniture and related products.....	7,301.2	81.4	226.8	2.5	14.6	0.2	241.4	2.7	3.31	3.30
339	Miscellaneous products.....	2,547.7	18.3	262.1	1.8	79.1	0.6	341.1	2.5	13.33	13.34
	NORTH DAKOTA.....	5,115.9	22.0	541.0	1.8	57.4	0.3	598.4	2.1	11.70	9.77
311	Food.....	1,856.1	5.2	202.7	0.3	12.1	-	214.8	0.3	11.57	6.12
312	Beverage and tobacco products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
313	Textile mills.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
314	Textile products.....	20.0	0.3	5.5	0.1	0.2	-	5.7	0.1	28.60	28.36
315	Apparel.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
316	Leather and allied products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
321	Wood products.....	107.0	1.1	1.1	-	0.2	-	1.3	-	1.18	1.31
322	Paper.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
323	Printing and related support activities.....	64.9	0.9	3.1	-	1.5	-	4.7	0.1	7.21	7.21
324	Petroleum and coal products.....	476.9	0.2	0.3	-	6.0	-	6.4	-	1.33	1.33
325	Chemicals.....	21.1	0.1	0.6	-	2.4	-	2.9	-	13.97	20.40
326	Plastics and rubber products.....	105.7	0.8	1.1	-	2.3	-	3.5	-	3.30	3.36
327	Nonmetallic mineral products.....	66.8	0.6	0.1	-	0.2	-	0.4	-	0.54	0.79
331	Primary metals.....	11.8	0.1	1.3	-	0.6	-	1.8	-	15.52	14.45
332	Fabricated metal products.....	207.4	1.6	2.7	-	12.1	0.1	14.8	0.1	7.16	7.76
333	Machinery.....	1,342.5	4.9	288.7	1.0	16.1	0.1	304.9	1.1	22.71	22.54
334	Computers and electronic products.....	112.3	1.5	11.3	0.1	1.0	-	12.3	0.1	10.97	8.38
335	Electrical equipment, appliances, and components.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
336	Transportation equipment.....	538.0	2.6	18.8	0.2	1.7	-	20.5	0.2	3.81	7.58
337	Furniture and related products.....	86.5	1.1	0.8	-	0.1	-	0.9	-	1.05	0.70
339	Miscellaneous products.....	55.3	0.7	2.0	-	0.3	-	2.3	-	4.22	4.95
	OHIO.....	241,902.9	984.2	29,492.1	116.3	24,536.4	107.4	54,028.5	223.7	22.34	22.73
311	Food.....	17,869.3	48.6	269.0	0.7	190.1	0.4	459.1	1.1	2.57	2.24
312	Beverage and tobacco products.....	3,212.1	6.4	3.1	-	17.5	-	20.6	-	0.64	0.64
313	Textile mills.....	435.2	3.3	71.3	0.6	75.9	0.5	147.2	1.1	33.82	34.83
314	Textile products.....	497.3	5.6	18.0	0.2	61.1	0.7	79.0	0.9	15.90	15.95
315	Apparel.....	570.6	4.6	176.9	1.0	25.4	0.2	202.3	1.2	35.46	25.92
316	Leather and allied products.....	260.1	2.1	26.3	0.2	1.3	-	27.6	0.3	10.59	12.17
321	Wood products.....	2,385.6	20.1	82.8	0.6	139.0	1.2	221.8	1.8	9.30	9.01
322	Paper.....	6,844.4	30.2	297.4	1.3	1,023.1	4.1	1,320.5	5.5	19.29	18.08
323	Printing and related support activities.....	4,911.2	43.0	143.2	1.3	364.3	3.2	507.5	4.4	10.33	10.33
324	Petroleum and coal products.....	6,261.2	5.7	35.4	-	730.7	0.7	766.1	0.7	12.24	12.24
325	Chemicals.....	21,170.7	46.9	2,345.6	5.2	3,567.6	8.2	5,913.2	13.4	27.93	28.55
326	Plastics and rubber products.....	13,397.3	92.5	1,042.7	7.1	1,381.1	9.6	2,423.8	16.6	18.09	17.94
327	Nonmetallic mineral products.....	6,371.6	37.8	682.8	4.0	633.4	3.7	1,316.2	7.7	20.79	20.49
331	Primary metals.....	21,382.6	74.6	1,426.0	4.1	6,475.6	21.7	7,901.6	25.9	36.95	34.64
332	Fabricated metal products.....	21,923.9	143.2	1,670.3	10.2	3,395.0	23.6	5,065.3	33.8	23.10	23.58
333	Machinery.....	19,159.1	113.9	3,828.8	22.4	1,409.1	8.2	5,237.9	30.6	27.34	26.91
334	Computers and electronic products.....	7,256.5	35.3	1,867.2	9.3	441.2	2.4	2,308.4	11.7	31.81	33.17
335	Electrical equipment, appliances, and components.....	9,411.9	46.9	1,434.8	7.3	1,008.4	6.0	2,443.2	13.3	25.96	28.33
336	Transportation equipment.....	71,399.8	173.1	13,624.4	37.6	3,421.5	11.7	17,045.9	49.3	23.87	28.50
337	Furniture and related products.....	3,039.4	20.8	163.4	1.1	36.1	0.2	199.5	1.4	6.56	6.52
339	Miscellaneous products.....	4,143.0	29.7	282.6	2.0	139.1	1.0	421.7	3.0	10.18	10.25

Table 4. Manufacturing Industries, Shipments and Employment Related to Manufactured Exports by State and Industry Subsector: 1997

NAICS industry code	Industry and state	Value of all manufacturers' shipments (million dollars) 1/	All manufacturing employment 1/ (thousand)	Direct exports 2/ (million dollars)	Employment related to direct exports (thousand)	Export supporting shipments (million dollars)	Employment related to supporting shipments (thousand)	Total export related shipments (million dollars)	Total export related employment (thousand)	Export related as percent of all	
										Shipments	Employment
	OKLAHOMA.....	37,453.2	164.1	4,028.9	21.3	1,570.9	8.8	5,599.8	30.1	14.95	18.35
311	Food.....	3,714.2	13.8	203.0	0.8	87.9	0.2	290.9	1.0	7.83	7.52
312	Beverage and tobacco products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
313	Textile mills.....	40.1	0.4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
314	Textile products.....	157.7	1.5	76.5	0.6	8.0	0.1	84.5	0.7	53.56	45.63
315	Apparel.....	442.2	5.8	71.7	0.9	7.5	0.1	79.2	1.0	17.91	18.09
316	Leather and allied products.....	(D)	(D)	5.5	0.1	0.1	-	5.6	0.1	21.34	21.88
321	Wood products.....	405.3	2.8	6.7	0.1	8.3	0.1	15.0	0.1	3.69	4.28
322	Paper.....	1,245.3	3.9	14.1	-	30.1	0.1	44.2	0.2	3.55	4.61
323	Printing and related support activities.....	564.3	5.7	6.9	0.1	20.1	0.2	27.0	0.3	4.79	4.79
324	Petroleum and coal products.....	4,324.8	2.5	19.5	-	69.9	-	89.4	0.1	2.07	2.07
325	Chemicals.....	2,657.3	3.9	161.9	0.3	74.9	0.2	236.8	0.4	8.91	11.36
326	Plastics and rubber products.....	2,693.8	13.5	206.7	1.0	124.3	0.7	331.1	1.7	12.29	12.42
327	Nonmetallic mineral products.....	1,250.1	8.1	23.0	0.1	25.9	0.2	49.0	0.3	3.94	3.78
331	Primary metals.....	933.1	5.0	34.1	0.1	289.8	1.6	323.9	1.7	34.72	34.56
332	Fabricated metal products.....	3,891.6	26.5	397.6	2.4	301.0	2.3	698.6	4.6	17.95	17.40
333	Machinery.....	4,461.4	22.8	1,492.0	7.7	194.4	0.9	1,686.4	8.6	37.80	37.77
334	Computers and electronic products.....	3,959.5	13.1	430.0	3.4	74.9	0.6	504.9	4.0	12.75	30.46
335	Electrical equipment, appliances, and components.....	655.5	3.5	108.5	0.6	63.3	0.4	171.8	1.0	26.21	29.25
336	Transportation equipment.....	4,601.1	20.2	746.5	2.8	164.2	1.0	910.7	3.7	19.79	18.50
337	Furniture and related products.....	269.4	3.4	5.4	0.1	1.5	-	6.9	0.1	2.57	2.86
339	Miscellaneous products.....	645.8	5.4	16.7	0.1	16.6	0.1	33.3	0.3	5.16	5.12
	OREGON.....	47,666.0	213.1	7,428.0	29.4	3,662.1	16.6	11,090.1	46.0	23.27	21.59
311	Food.....	4,662.1	21.6	343.3	1.6	120.5	0.5	463.8	2.0	9.95	9.38
312	Beverage and tobacco products.....	620.0	2.3	7.9	-	6.5	-	14.4	0.1	2.33	2.33
313	Textile mills.....	27.6	0.2	2.4	-	6.8	0.1	9.2	0.1	33.37	36.98
314	Textile products.....	74.3	1.2	0.8	-	3.1	0.1	4.0	0.1	5.35	5.52
315	Apparel.....	105.3	1.9	9.1	0.1	0.7	-	9.9	0.2	9.37	8.22
316	Leather and allied products.....	39.6	0.5	5.0	0.1	0.4	-	5.4	0.1	13.68	13.84
321	Wood products.....	8,432.2	38.1	588.6	2.4	257.2	1.1	845.8	3.5	10.03	9.10
322	Paper.....	2,664.9	7.9	300.3	0.9	264.6	0.8	565.0	1.7	21.20	21.48
323	Printing and related support activities.....	999.4	8.8	11.4	0.1	111.5	1.0	122.8	1.1	12.29	12.29
324	Petroleum and coal products.....	346.4	0.8	3.5	-	9.3	-	12.7	-	3.68	3.68
325	Chemicals.....	1,154.6	3.8	61.5	0.2	157.7	0.4	219.2	0.7	18.99	17.20
326	Plastics and rubber products.....	1,047.4	7.5	205.5	1.5	160.7	1.2	366.1	2.7	34.95	35.28
327	Nonmetallic mineral products.....	776.8	4.7	62.4	0.3	34.0	0.2	96.4	0.6	12.41	12.21
331	Primary metals.....	2,204.7	10.9	481.1	2.0	484.1	2.1	965.2	4.1	43.78	37.90
332	Fabricated metal products.....	2,448.5	18.9	261.8	1.8	462.7	4.3	724.5	6.1	29.60	32.31
333	Machinery.....	2,083.1	13.9	779.0	4.9	105.3	0.8	884.3	5.7	42.45	41.18
334	Computers and electronic products.....	14,632.0	37.7	3,645.8	9.6	1,294.7	3.0	4,940.5	12.6	33.77	33.37
335	Electrical equipment, appliances, and components.....	355.0	1.7	132.5	0.5	79.0	0.4	211.5	0.9	59.58	50.55
336	Transportation equipment.....	3,538.3	15.8	359.5	1.6	72.9	0.4	432.3	2.0	12.22	12.75
337	Furniture and related products.....	561.1	6.1	14.4	0.2	6.0	0.1	20.4	0.2	3.64	3.68
339	Miscellaneous products.....	892.6	9.0	152.1	1.5	24.2	0.3	176.3	1.8	19.75	19.76
	PENNSYLVANIA.....	172,193.2	826.5	16,758.4	84.1	11,391.2	52.8	28,149.6	136.9	16.33	16.55
311	Food.....	20,374.3	75.8	569.4	2.1	243.0	0.8	812.5	3.0	3.99	3.91
312	Beverage and tobacco products.....	2,688.0	7.1	77.8	0.2	9.7	-	87.5	0.2	3.26	3.21
313	Textile mills.....	1,704.9	14.1	160.8	1.4	317.2	2.8	478.0	4.2	28.04	29.56
314	Textile products.....	1,028.1	8.0	162.1	1.1	16.5	0.1	178.6	1.2	17.37	14.97
315	Apparel.....	3,717.4	40.8	379.0	4.2	69.8	0.8	448.8	5.0	12.07	12.28
316	Leather and allied products.....	676.6	5.2	155.8	1.0	53.0	0.3	208.8	1.3	30.86	24.85
321	Wood products.....	3,292.7	24.5	366.4	2.3	158.1	1.1	524.5	3.4	15.93	13.97
322	Paper.....	8,901.1	32.2	294.2	1.3	647.5	2.1	941.7	3.3	10.58	10.35
323	Printing and related support activities.....	6,260.9	51.4	84.2	0.7	180.0	1.5	264.2	2.2	4.22	4.22
324	Petroleum and coal products.....	9,447.0	7.3	251.2	0.2	446.8	0.3	698.0	0.5	7.39	7.39
325	Chemicals.....	19,295.6	33.1	1,594.4	3.1	1,806.0	4.1	3,400.4	7.2	17.62	21.88
326	Plastics and rubber products.....	8,414.5	50.4	423.8	2.5	548.7	3.3	972.5	5.8	11.56	11.59
327	Nonmetallic mineral products.....	6,095.9	33.3	375.1	2.2	297.4	1.7	672.5	3.9	10.77	11.59
331	Primary metals.....	17,057.7	63.3	2,201.0	7.3	3,238.2	12.5	5,439.2	19.8	31.89	31.31
332	Fabricated metal products.....	14,593.9	103.9	773.6	5.2	1,465.7	10.4	2,239.3	15.6	15.34	15.00
333	Machinery.....	12,632.2	73.5	3,517.8	19.9	624.3	4.0	4,142.1	23.9	32.79	32.57
334	Computers and electronic products.....	12,840.1	61.6	1,732.3	9.0	393.2	1.7	2,125.6	10.7	16.55	17.36
335	Electrical equipment, appliances, and components.....	5,186.8	28.8	791.4	4.5	498.0	3.0	1,289.4	7.4	24.86	25.83
336	Transportation equipment.....	10,843.4	52.4	2,158.3	10.2	276.3	1.4	2,434.6	11.6	22.45	22.12
337	Furniture and related products.....	2,819.7	24.6	112.7	0.9	29.3	0.3	142.0	1.2	5.04	5.00
339	Miscellaneous products.....	4,322.4	35.3	577.0	4.7	72.4	0.6	649.4	5.3	15.02	14.96

Table 4. Manufacturing Industries, Shipments and Employment Related to Manufactured Exports by State and Industry Subsector: 1997

NAICS industry code	Industry and state	Value of all manufacturers' shipments (million dollars) 1/	All manufacturing employment 1/ (thousand)	Direct exports 2/ (million dollars)	Employment related to direct exports (thousand)	Export supporting shipments (million dollars)	Employment related to supporting shipments (thousand)	Total export related shipments (million dollars)	Total export related employment (thousand)	Export related as percent of all	
										Shipments	Employment
	RHODE ISLAND.....	10,482.0	75.6	1,532.6	9.8	590.2	4.1	2,122.8	13.8	20.25	18.28
311	Food.....	392.5	2.4	1.8	-	1.5	-	3.3	-	0.83	0.96
312	Beverage and tobacco products.....	120.5	0.4	-	-	0.4	-	-	-	-	-
313	Textile mills.....	831.9	6.0	104.4	0.8	81.5	0.6	185.8	1.4	22.34	23.91
314	Textile products.....	107.3	1.3	13.1	0.2	1.5	-	14.6	0.2	13.64	13.41
315	Apparel.....	43.0	0.5	8.1	0.1	0.5	-	8.6	0.1	19.96	20.65
316	Leather and allied products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
321	Wood products.....	101.3	0.5	0.6	-	3.3	-	3.9	-	3.90	6.38
322	Paper.....	302.8	2.0	47.6	0.3	21.7	0.1	69.2	0.4	22.85	22.85
323	Printing and related support activities.....	378.4	3.3	10.3	0.1	14.1	0.1	24.3	0.2	6.43	6.43
324	Petroleum and coal products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
325	Chemicals.....	642.0	2.7	85.5	0.4	94.3	0.3	179.8	0.7	28.01	25.07
326	Plastics and rubber products.....	776.8	5.5	46.2	0.3	44.0	0.3	90.3	0.6	11.62	11.64
327	Nonmetallic mineral products.....	162.4	1.1	15.5	0.1	12.0	0.1	27.6	0.2	16.97	18.92
331	Primary metals.....	543.3	3.2	71.3	0.3	125.1	0.6	196.4	0.9	36.15	27.74
332	Fabricated metal products.....	1,035.3	10.6	51.6	0.5	75.2	0.9	126.8	1.4	12.25	13.44
333	Machinery.....	417.0	3.2	108.6	0.8	15.2	0.1	123.8	1.0	29.68	30.23
334	Computers and electronic products.....	1,154.0	7.4	421.2	2.2	48.5	0.4	469.7	2.6	40.70	35.72
335	Electrical equipment, appliances, and components.....	1,099.1	4.6	244.4	1.0	31.1	0.1	275.5	1.1	25.07	24.73
336	Transportation equipment.....	138.3	1.1	21.2	0.1	2.7	-	23.8	0.2	17.24	13.31
337	Furniture and related products.....	201.9	1.9	11.1	0.1	0.3	-	11.4	0.1	5.66	6.08
339	Miscellaneous products.....	1,996.0	17.5	257.1	2.2	17.0	0.1	274.1	2.4	13.73	13.71
	SOUTH CAROLINA.....	70,797.0	346.1	9,256.9	40.4	5,944.9	28.4	15,201.8	68.8	21.47	19.88
311	Food.....	3,141.1	16.3	37.2	0.1	28.4	0.1	65.6	0.3	2.09	1.61
312	Beverage and tobacco products.....	349.0	0.8	5.2	-	3.3	-	8.5	0.0	2.44	2.44
313	Textile mills.....	10,028.7	65.6	780.2	5.6	638.7	4.1	1,418.9	9.7	14.15	14.79
314	Textile products.....	2,349.1	14.8	115.9	0.8	33.6	0.2	149.5	1.0	6.36	6.86
315	Apparel.....	1,425.1	17.8	96.5	1.3	20.7	0.3	117.2	1.5	8.22	8.53
316	Leather and allied products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
321	Wood products.....	2,019.5	11.2	41.5	0.2	123.1	0.7	164.6	1.0	8.14	8.71
322	Paper.....	4,903.7	14.7	566.6	1.5	409.9	1.2	976.5	2.7	19.91	18.10
323	Printing and related support activities.....	823.4	7.2	40.9	0.4	49.9	0.4	90.9	0.8	11.04	11.04
324	Petroleum and coal products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
325	Chemicals.....	13,252.6	38.5	1,838.6	5.3	2,087.4	6.7	3,926.0	12.0	29.62	31.08
326	Plastics and rubber products.....	4,718.8	23.5	463.5	2.2	348.4	1.9	811.9	4.0	17.21	17.20
327	Nonmetallic mineral products.....	1,863.8	9.8	195.1	0.9	99.5	0.5	294.7	1.4	15.81	14.05
331	Primary metals.....	2,302.4	7.0	138.2	0.5	789.6	3.4	927.8	3.8	40.30	55.00
332	Fabricated metal products.....	4,340.6	29.8	444.4	3.0	633.8	5.1	1,078.2	8.1	24.84	27.18
333	Machinery.....	5,517.1	24.9	2,647.2	7.8	124.7	0.9	2,771.9	8.6	50.24	34.70
334	Computers and electronic products, and components.....	2,273.7	14.8	857.2	6.2	130.8	0.9	988.0	7.2	43.45	48.54
335	Electrical equipment, appliances, and components.....	3,162.8	15.0	378.3	1.7	175.1	0.9	553.4	2.5	17.50	16.99
336	Transportation equipment.....	6,817.0	22.6	483.1	2.0	190.3	0.8	673.4	2.8	9.88	12.29
337	Furniture and related products.....	569.6	5.5	60.4	0.5	1.8	-	62.2	0.5	10.92	9.58
339	Miscellaneous products.....	714.1	5.9	66.4	0.5	39.2	0.3	105.6	0.8	14.79	14.14
	SOUTH DAKOTA.....	12,305.5	46.5	1,036.5	5.8	588.2	3.1	1,624.7	8.9	13.20	19.13
311	Food.....	2,409.5	7.8	88.9	0.3	36.6	0.1	125.5	0.4	5.21	5.07
312	Beverage and tobacco products.....	50.3	0.2	-	-	0.9	-	0.9	-	1.8	-
313	Textile mills.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
314	Textile products.....	50.4	0.9	2.0	-	0.6	-	2.5	-	4.99	3.37
315	Apparel.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
316	Leather and allied products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
321	Wood products.....	204.2	1.4	1.6	-	4.4	-	5.9	-	2.91	3.14
322	Paper.....	151.2	0.7	3.0	-	13.0	0.1	15.9	0.1	10.55	10.55
323	Printing and related support activities.....	122.7	1.4	9.5	0.1	12.9	0.1	22.4	0.3	18.28	18.28
324	Petroleum and coal products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
325	Chemicals.....	146.0	0.7	36.2	0.2	7.8	-	44.0	0.3	30.11	38.80
326	Plastics and rubber products.....	203.8	1.5	0.5	-	33.6	0.2	34.2	0.2	16.76	16.12
327	Nonmetallic mineral products.....	153.8	1.2	2.3	-	1.4	-	3.7	-	2.39	2.20
331	Primary metals.....	128.5	0.6	3.4	-	16.2	0.1	19.5	0.1	15.20	15.53
332	Fabricated metal products.....	389.5	3.4	7.6	0.1	20.4	0.2	28.0	0.3	7.18	9.12
333	Machinery.....	775.7	5.2	83.2	0.6	11.5	0.1	94.7	0.7	12.21	12.80
334	Computers and electronic products.....	5,941.7	12.4	694.8	3.8	396.3	1.9	1,091.0	5.6	18.36	45.48
335	Electrical equipment, appliances, and components.....	92.8	0.5	12.0	0.1	13.4	0.1	25.4	0.1	27.38	24.77
336	Transportation equipment.....	381.1	2.2	54.0	0.3	12.2	0.1	66.2	0.4	17.37	16.53
337	Furniture and related products.....	140.5	1.5	2.3	-	0.5	-	2.8	-	1.98	1.98
339	Miscellaneous products.....	738.2	3.9	19.6	0.2	5.6	0.1	25.3	0.3	3.42	6.83

Table 4. Manufacturing Industries, Shipments and Employment Related to Manufactured Exports by State and Industry Subsector: 1997

NAICS industry code	Industry and state	Value of all manufacturers' shipments (million dollars) 1/	All manufacturing employment 1/ (thousand)	Direct exports 2/ (million dollars)	Employment related to direct exports (thousand)	Export supporting shipments (million dollars)	Employment related to supporting shipments (thousand)	Total export related shipments (million dollars)	Total export related employment (thousand)	Export related as percent of all	
										Shipments	Employment
	TENNESSEE.....	98,503.1	483.8	10,298.0	46.0	6,691.9	33.0	16,989.9	79.0	17.25	16.32
311	Food.....	9,503.3	35.8	560.5	1.8	182.9	0.5	743.4	2.3	7.82	6.30
312	Beverage and tobacco products.....	2,686.1	3.8	366.5	0.6	13.7	-	380.3	0.6	14.16	17.11
313	Textile mills.....	1,757.5	12.2	277.8	1.8	398.6	2.9	676.4	4.7	38.49	38.25
314	Textile products.....	825.2	6.3	20.3	0.2	28.9	0.2	49.2	0.4	5.96	6.19
315	Apparel.....	3,143.9	36.6	264.4	3.0	51.3	0.6	315.7	3.5	10.04	9.66
316	Leather and allied products.....	259.2	2.9	37.3	0.4	7.0	0.1	44.3	0.5	17.10	16.16
321	Wood products.....	2,402.5	18.6	80.1	0.6	106.6	0.8	186.8	1.4	7.77	7.73
322	Paper.....	3,897.8	17.8	312.7	1.2	433.0	1.7	745.7	2.9	19.13	16.38
323	Printing and related support activities.....	2,862.1	25.1	7.1	0.1	110.0	1.0	117.1	1.0	4.09	4.09
324	Petroleum and coal products.....	1,938.6	1.3	4.3	-	36.9	-	41.2	-	2.13	2.13
325	Chemicals.....	10,115.1	34.2	1,941.6	6.8	1,828.1	6.3	3,769.7	13.1	37.27	38.41
326	Plastics and rubber products.....	5,801.6	35.1	399.0	2.5	433.3	2.8	832.3	5.3	14.35	15.08
327	Nonmetallic mineral products.....	2,323.0	14.2	271.8	1.8	129.0	0.8	400.8	2.6	17.29	18.07
331	Primary metals.....	5,153.7	16.3	517.5	1.1	1,172.1	3.7	1,689.6	4.8	32.78	29.74
332	Fabricated metal products.....	6,003.8	43.4	455.0	2.9	601.5	5.0	1,056.5	7.9	17.60	18.24
333	Machinery.....	8,426.9	40.5	1,122.9	5.4	278.3	1.5	1,401.2	6.9	16.63	16.95
334	Computers and electronic products.....	2,735.0	12.5	587.4	2.0	95.9	0.6	683.3	2.6	24.99	20.68
335	Electrical equipment, appliances, and components.....	4,528.5	25.3	376.4	2.1	123.5	0.8	500.0	2.9	11.04	11.52
336	Transportation equipment.....	18,661.3	55.7	2,313.3	8.9	534.8	2.4	2,848.1	11.3	15.26	20.30
337	Furniture and related products.....	2,365.5	26.5	73.1	0.9	77.6	1.0	150.7	1.9	6.37	7.05
339	Miscellaneous products.....	3,112.5	19.9	309.0	2.0	48.7	0.3	357.7	2.3	11.49	11.78
	TEXAS.....	297,657.0	959.7	39,084.2	116.3	24,016.6	79.9	63,100.7	196.2	21.20	20.45
311	Food.....	26,313.1	83.7	1,774.6	5.1	700.7	1.9	2,475.4	7.1	9.41	8.45
312	Beverage and tobacco products.....	4,953.7	11.6	25.1	0.1	32.7	0.1	57.8	0.1	1.17	1.16
313	Textile mills.....	650.5	6.0	33.1	0.2	55.5	0.5	88.6	0.7	13.63	12.35
314	Textile products.....	732.6	9.5	16.2	0.2	14.4	0.2	30.6	0.4	4.18	4.26
315	Apparel.....	4,576.8	40.0	683.6	6.1	95.9	0.8	779.5	6.9	17.03	17.31
316	Leather and allied products.....	551.4	4.7	27.5	0.3	8.2	-	35.7	0.3	6.47	6.58
321	Wood products.....	4,383.1	29.6	106.3	0.6	186.9	1.2	293.2	1.8	6.69	6.18
322	Paper.....	5,810.6	22.1	465.0	1.6	617.1	2.2	1,082.0	3.8	18.62	17.32
323	Printing and related support activities.....	4,709.5	43.0	56.1	0.5	376.0	3.4	432.1	3.9	9.17	9.17
324	Petroleum and coal products.....	46,244.6	21.4	2,673.2	1.2	1,872.3	0.9	4,545.5	2.1	9.83	9.83
325	Chemicals.....	67,007.3	77.9	11,279.4	11.9	7,650.3	8.6	18,929.7	20.5	28.25	26.27
326	Plastics and rubber products.....	9,154.9	55.1	415.1	2.5	1,082.6	6.5	1,497.6	9.0	16.36	16.36
327	Nonmetallic mineral products.....	6,216.3	34.5	232.0	1.3	302.9	1.6	534.9	2.9	8.60	8.35
331	Primary metals.....	9,447.1	27.9	1,336.3	2.8	2,583.3	7.4	3,919.6	10.3	41.49	36.84
332	Fabricated metal products.....	15,579.5	114.7	1,380.2	9.1	2,562.5	21.5	3,942.6	30.5	25.31	26.62
333	Machinery.....	15,160.8	79.6	3,844.0	20.3	654.0	3.5	4,497.9	23.8	29.67	29.93
334	Computers and electronic products.....	48,749.7	135.6	10,847.6	30.9	4,007.3	12.7	14,854.9	43.6	30.47	32.16
335	Electrical equipment, appliances, and components.....	4,851.6	23.4	689.2	3.2	434.1	2.1	1,123.3	5.3	23.15	22.76
336	Transportation equipment.....	14,766.3	74.0	2,690.1	14.6	613.3	3.2	3,303.4	17.8	22.37	24.09
337	Furniture and related products.....	2,698.8	27.7	71.2	0.7	19.5	0.2	90.7	0.9	3.36	3.42
339	Miscellaneous products.....	5,098.7	37.6	438.6	3.0	147.1	1.2	585.7	4.2	11.49	11.31
	UTAH.....	24,014.4	119.1	3,028.7	11.5	1,661.3	8.8	4,690.0	20.3	19.61	17.02
311	Food.....	3,024.5	12.7	74.1	0.3	34.9	0.2	109.0	0.5	3.60	3.57
312	Beverage and tobacco products.....	292.0	0.6	1.7	-	2.0	-	3.7	-	1.26	1.26
313	Textile mills.....	6.6	0.1	-	-	1.3	-	1.3	-	19.33	19.77
314	Textile products.....	157.5	1.4	8.3	0.1	1.4	-	9.7	0.1	6.19	6.08
315	Apparel.....	101.0	2.0	35.6	0.7	3.4	0.1	39.0	0.8	38.63	38.52
316	Leather and allied products.....	23.2	0.2	3.4	-	0.3	-	3.6	-	15.55	16.27
321	Wood products.....	213.1	2.1	2.6	-	10.1	0.1	12.7	0.1	5.95	5.89
322	Paper.....	781.9	2.8	11.9	-	16.5	0.1	28.4	0.1	3.64	3.64
323	Printing and related support activities.....	976.3	7.8	3.2	-	34.7	0.3	37.9	0.3	3.88	3.88
324	Petroleum and coal products.....	1,807.0	1.6	4.5	-	58.3	0.1	62.8	0.1	3.48	3.48
325	Chemicals.....	1,267.5	5.5	115.9	0.5	50.2	0.2	166.1	0.7	13.10	12.68
326	Plastics and rubber products.....	530.5	4.1	20.6	0.2	47.9	0.4	68.5	0.5	12.92	12.90
327	Nonmetallic mineral products.....	631.5	4.2	6.3	0.1	13.7	0.1	20.0	0.2	3.17	3.87
331	Primary metals.....	2,900.2	6.9	621.8	0.9	556.3	1.2	1,178.2	2.1	40.62	30.24
332	Fabricated metal products.....	1,422.1	10.1	63.2	0.4	164.0	1.5	227.3	1.9	15.98	19.25
333	Machinery.....	1,050.7	6.5	249.1	1.5	23.1	0.2	272.2	1.6	25.91	25.23
334	Computers and electronic products.....	3,570.5	15.7	1,398.7	4.2	532.2	3.8	1,930.9	8.0	55.57	51.02
335	Electrical equipment, appliances, and components.....	410.6	1.5	31.7	0.1	35.0	0.1	66.7	0.2	16.24	15.88
336	Transportation equipment.....	2,926.0	14.6	215.1	1.1	54.1	0.3	269.1	1.3	9.20	9.15
337	Furniture and related products.....	473.2	5.6	5.8	0.1	1.7	-	7.4	0.1	1.57	1.55
339	Miscellaneous products.....	1,448.6	13.1	155.2	1.4	20.2	0.2	175.4	1.6	12.11	12.08

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										Shipments	Employment
	VERMONT.....	7,803.0	42.5	1,326.3	5.6	434.6	2.5	1,761.0	8.1	22.57	19.01
311	Food.....	798.6	2.9	110.5	0.3	45.0	0.1	155.5	0.5	19.47	15.63
312	Beverage and tobacco products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
313	Textile mills.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
314	Textile products.....	20.7	0.2	0.5	-	0.3	-	0.8	0.0	3.83	3.89
315	Apparel.....	94.3	1.0	7.7	0.1	0.8	-	8.5	0.1	9.05	8.36
316	Leather and allied products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
321	Wood products.....	419.6	3.3	25.2	0.2	17.9	0.1	43.1	0.3	10.28	9.40
322	Paper.....	382.1	1.7	13.8	0.1	39.4	0.2	53.2	0.2	13.92	14.22
323	Printing and related support activities.....	397.2	3.2	3.7	-	21.4	0.2	25.2	0.2	6.33	6.33
324	Petroleum and coal products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
325	Chemicals.....	84.8	0.5	9.8	-	15.5	0.1	25.3	0.1	29.88	28.89
326	Plastics and rubber products.....	262.8	1.9	23.8	0.2	42.8	0.3	66.6	0.5	25.36	24.82
327	Nonmetallic mineral products.....	210.5	1.8	9.1	0.1	3.8	-	12.9	0.1	6.12	7.04
331	Primary metals.....	42.1	0.3	0.4	-	7.3	-	7.8	0.0	18.50	15.25
332	Fabricated metal products.....	437.8	3.2	89.3	0.5	56.1	0.6	145.4	1.1	33.22	33.74
333	Machinery.....	464.9	3.6	64.1	0.5	21.5	0.2	85.6	0.7	18.42	19.01
334	Computers and electronic products.....	3,097.3	9.5	780.4	2.4	129.7	0.4	910.1	2.8	29.38	29.24
335	Electrical equipment, appliances, and components.....	216.6	1.4	53.7	0.3	20.0	0.1	73.7	0.5	34.01	33.24
336	Transportation equipment.....	311.2	2.5	22.8	0.2	5.7	-	28.5	0.2	9.15	7.70
337	Furniture and related products.....	181.1	2.7	1.0	-	0.8	-	1.8	0.0	1.01	0.96
339	Miscellaneous products.....	306.9	2.2	105.8	0.7	4.9	-	110.7	0.7	36.08	33.68
	VIRGINIA.....	83,814.0	370.6	10,043.2	40.3	3,793.5	18.4	13,836.7	58.6	16.51	15.82
311	Food.....	9,334.3	33.7	571.3	2.0	144.8	0.6	716.1	2.5	7.67	7.48
312	Beverage and tobacco products.....	11,905.8	13.3	1,836.8	1.9	147.8	0.2	1,984.6	2.1	16.67	15.66
313	Textile mills.....	3,063.2	20.7	360.5	2.4	441.1	3.0	801.6	5.4	26.17	26.06
314	Textile products.....	562.3	4.2	54.0	0.5	20.6	0.2	74.6	0.6	13.27	15.46
315	Apparel.....	2,236.9	26.2	224.5	2.7	37.2	0.5	261.8	3.2	11.70	12.05
316	Leather and allied products.....	32.7	0.7	2.8	-	0.1	-	2.9	-	8.87	5.79
321	Wood products.....	2,774.5	19.6	152.5	0.9	152.6	1.0	305.1	1.9	11.00	9.79
322	Paper.....	4,212.2	15.7	541.3	1.8	438.7	1.6	980.0	3.4	23.26	21.45
323	Printing and related support activities.....	2,462.7	20.7	33.4	0.3	160.3	1.3	193.6	1.6	7.86	7.86
324	Petroleum and coal products.....	560.1	0.6	0.8	-	22.0	-	22.8	-	4.06	4.06
325	Chemicals.....	9,081.4	20.3	1,940.5	4.6	829.8	2.6	2,770.3	7.2	30.51	35.28
326	Plastics and rubber products.....	4,393.3	21.9	345.4	1.7	267.4	1.3	612.8	3.1	13.95	13.96
327	Nonmetallic mineral products.....	1,727.4	12.1	85.0	0.6	63.8	0.5	148.8	1.1	8.61	8.90
331	Primary metals.....	1,803.7	7.3	129.2	0.4	363.8	1.3	492.9	1.8	27.33	23.94
332	Fabricated metal products.....	3,083.3	20.6	281.0	1.6	193.4	1.5	474.4	3.1	15.39	14.91
333	Machinery.....	3,805.3	21.3	1,122.0	6.4	94.9	0.5	1,216.9	6.9	31.98	32.54
334	Computers and electronic products, and components.....	6,381.5	29.8	698.4	4.2	99.2	0.6	797.5	4.8	12.50	16.24
335	Electrical equipment, appliances, and components.....	2,103.2	11.7	687.6	3.9	168.0	0.9	855.6	4.8	40.68	41.53
336	Transportation equipment.....	10,842.9	36.8	744.8	2.2	117.8	0.6	862.6	2.8	7.96	7.54
337	Furniture and related products.....	2,175.4	23.7	71.1	0.8	7.6	0.1	78.7	0.9	3.62	3.72
339	Miscellaneous products.....	1,271.8	9.6	160.5	1.2	22.6	0.2	183.1	1.4	14.40	14.88
	WASHINGTON.....	78,852.5	328.5	25,912.7	90.6	8,731.9	38.8	34,644.6	129.3	43.95	39.37
311	Food.....	8,692.7	36.1	691.9	2.7	154.8	0.5	846.7	3.2	9.74	8.96
312	Beverage and tobacco products.....	1,161.3	3.6	76.0	0.2	13.0	-	89.0	0.3	7.66	7.66
313	Textile mills.....	182.3	0.9	15.8	0.1	25.6	0.2	41.3	0.3	22.67	29.64
314	Textile products.....	206.3	2.2	57.9	0.6	12.9	0.1	70.8	0.8	34.30	34.79
315	Apparel.....	385.0	4.9	51.9	0.7	3.4	-	55.2	0.7	14.35	14.56
316	Leather and allied products.....	140.5	0.8	20.9	0.1	0.4	-	21.3	0.1	15.17	13.58
321	Wood products.....	4,415.2	22.2	699.1	3.3	344.8	1.7	1,044.0	5.0	23.65	22.56
322	Paper.....	4,719.5	15.0	1,058.1	3.2	460.1	1.4	1,518.2	4.7	32.17	31.13
323	Printing and related support activities.....	1,140.9	11.7	45.5	0.5	100.7	1.0	146.2	1.5	12.82	12.82
324	Petroleum and coal products.....	5,393.8	2.2	229.2	0.1	238.2	0.1	467.5	0.2	8.67	8.67
325	Chemicals.....	1,891.5	5.6	310.1	1.0	243.6	0.7	553.7	1.8	29.27	31.76
326	Plastics and rubber products.....	1,606.6	11.6	137.8	1.0	304.8	2.2	442.6	3.2	27.55	27.57
327	Nonmetallic mineral products.....	1,347.1	7.8	69.7	0.5	71.2	0.5	140.9	1.0	10.46	12.37
331	Primary metals.....	3,652.0	12.1	889.9	2.7	1,094.7	4.0	1,984.5	6.7	54.34	55.00
332	Fabricated metal products.....	2,721.8	22.0	144.5	1.0	711.3	6.5	855.9	7.5	31.44	34.01
333	Machinery.....	2,025.6	13.7	625.4	4.1	134.9	0.9	760.3	5.0	37.53	36.82
334	Computers and electronic products, and components.....	7,479.8	46.2	2,281.7	14.3	1,305.0	8.4	3,586.7	22.7	48.14	49.12
335	Electrical equipment, appliances, and components.....	590.7	3.6	105.6	0.6	39.6	0.3	145.2	0.9	24.58	23.94
336	Transportation equipment.....	29,222.9	88.6	18,208.5	52.1	3,442.9	9.8	21,651.3	61.9	74.09	69.83
337	Furniture and related products.....	675.3	7.4	20.4	0.2	8.0	0.1	28.4	0.3	4.21	4.57
339	Miscellaneous products.....	1,201.6	10.4	172.9	1.5	22.1	0.2	194.9	1.7	16.22	16.48

Table 4. Manufacturing Industries, Shipments and Employment Related to Manufactured Exports by State and Industry Subsector: 1997

NAICS industry code	Industry and state	Value of all manufacturers' shipments (million dollars) 1/	All manufacturing employment 1/ (thousand)	Direct exports 2/ (million dollars)	Employment related to direct exports (thousand)	Export supporting shipments (million dollars)	Employment related to supporting shipments (thousand)	Total export related shipments (million dollars)	Total export related employment (thousand)	Export related as percent of all	
										Shipments	Employment
	WEST VIRGINIA.....	18,293.3	72.8	1,783.6	6.4	802.7	2.5	2,586.3	8.9	14.14	12.24
311	Food.....	813.4	5.0	5.9	-	2.0	-	7.9	0.1	0.97	1.07
312	Beverage and tobacco products.....	266.5	0.6	0.3	-	0.3	-	0.6	-	0.23	0.23
313	Textile mills.....	44.0	0.4	0.8	-	0.6	-	1.4	-	3.13	2.66
314	Textile products.....	25.6	0.2	0.3	-	0.1	-	0.4	-	1.57	1.50
315	Apparel.....	223.9	1.9	10.4	0.1	1.1	-	11.5	0.1	5.13	5.43
316	Leather and allied products.....	46.3	0.7	0.6	-	-	-	0.6	-	1.31	1.31
321	Wood products.....	1,074.3	7.8	90.4	0.6	26.1	0.2	116.5	0.8	10.84	9.96
322	Paper.....	129.7	0.8	5.4	-	4.8	-	10.2	0.1	7.86	7.90
323	Printing and related support activities.....	204.2	2.3	27.9	0.3	2.6	-	30.5	0.3	14.94	14.94
324	Petroleum and coal products.....	370.9	0.5	43.5	0.1	25.4	-	68.9	0.1	18.56	18.56
325	Chemicals.....	7,318.8	13.4	705.1	1.3	349.4	0.7	1,054.4	2.0	14.41	14.96
326	Plastics and rubber products.....	448.1	2.9	9.2	0.1	17.8	0.1	26.9	0.2	6.01	6.02
327	Nonmetallic mineral products.....	680.4	5.7	43.2	0.4	13.8	0.1	57.0	0.6	8.38	9.61
331	Primary metals.....	3,430.4	11.1	561.3	1.6	271.2	0.8	832.5	2.4	24.27	21.61
332	Fabricated metal products.....	1,369.4	7.3	22.4	0.2	60.5	0.3	83.0	0.4	6.06	6.00
333	Machinery.....	599.7	3.7	81.0	0.5	3.2	-	84.2	0.5	14.04	13.82
334	Computers and electronic products.....	79.6	1.0	31.4	0.4	2.1	-	33.6	0.4	42.17	37.45
335	Electrical equipment, appliances, and components.....	260.3	1.8	39.4	0.3	8.5	0.1	48.0	0.3	18.42	17.16
336	Transportation equipment.....	609.2	3.4	85.1	0.5	10.5	0.1	95.6	0.5	15.70	15.58
337	Furniture and related products.....	105.0	1.2	3.3	-	0.4	-	3.7	-	3.57	3.30
339	Miscellaneous products.....	193.4	1.3	16.6	0.1	2.4	-	19.0	0.1	9.81	10.18
	WISCONSIN.....	117,383.0	562.5	11,603.3	56.7	6,260.1	36.2	17,863.3	92.8	15.22	16.50
311	Food.....	20,596.7	62.2	724.2	2.4	320.6	1.0	1,044.8	3.4	5.07	5.47
312	Beverage and tobacco products.....	1,259.0	2.8	15.9	-	6.5	-	22.3	0.1	1.77	1.77
313	Textile mills.....	376.1	2.4	43.6	0.3	27.6	0.2	71.2	0.4	18.92	18.93
314	Textile products.....	197.0	2.0	4.8	-	11.5	0.1	16.3	0.2	8.26	8.88
315	Apparel.....	257.3	4.0	36.5	0.5	7.9	0.1	44.4	0.7	17.26	16.88
316	Leather and allied products.....	772.1	5.5	128.5	0.8	40.1	0.2	168.5	1.0	21.82	18.72
321	Wood products.....	3,748.0	28.0	110.4	0.8	144.6	1.1	255.0	1.9	6.80	6.69
322	Paper.....	12,651.5	42.8	548.6	1.9	562.6	1.9	1,111.2	3.8	8.78	8.77
323	Printing and related support activities.....	4,294.8	38.1	74.2	0.7	125.5	1.1	199.7	1.8	4.65	4.65
324	Petroleum and coal products.....	402.3	0.4	17.6	-	12.6	-	30.2	-	7.50	7.50
325	Chemicals.....	4,896.5	12.4	533.9	1.8	307.7	1.0	841.7	2.8	17.19	22.73
326	Plastics and rubber products.....	4,922.5	31.6	257.3	1.7	475.1	3.0	732.4	4.7	14.88	14.85
327	Nonmetallic mineral products.....	2,034.9	10.5	47.7	0.4	97.3	0.5	144.9	0.8	7.12	8.05
331	Primary metals.....	4,298.0	26.4	117.5	0.6	880.4	4.9	997.9	5.6	23.22	21.11
332	Fabricated metal products.....	10,008.5	73.7	574.7	3.8	1,191.6	9.7	1,766.3	13.5	17.65	18.36
333	Machinery.....	16,232.7	86.0	3,857.7	19.6	824.8	4.6	4,682.5	24.3	28.85	28.21
334	Computers and electronic products.....	4,620.6	23.4	1,247.3	7.5	299.6	2.1	1,546.9	9.6	33.48	41.14
335	Electrical equipment, appliances, and components.....	7,102.9	33.3	1,230.5	5.8	359.4	1.7	1,589.9	7.5	22.38	22.65
336	Transportation equipment.....	14,347.7	39.9	1,660.7	4.9	474.6	2.0	2,135.3	6.9	14.88	17.30
337	Furniture and related products.....	1,977.7	17.3	96.5	0.8	15.2	0.1	111.7	1.0	5.65	5.67
339	Miscellaneous products.....	2,386.1	19.6	275.4	2.2	74.8	0.6	350.2	2.8	14.68	14.36
	WYOMING.....	2,955.1	8.4	36.2	0.3	5.2	-	41.5	0.3	1.40	3.35
311	Food.....	143.9	0.6	3.7	-	1.0	-	4.8	-	3.31	3.04
312	Beverage and tobacco products.....	115.0	0.3	-	-	-	-	-	-	-	-
313	Textile mills.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
314	Textile products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
315	Apparel.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
316	Leather and allied products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
321	Wood products.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
322	Paper.....	0.6	-	-	-	-	-	-	-	-	-
323	Printing and related support activities.....	29.4	0.4	-	-	0.1	-	0.1	-	0.34	-
324	Petroleum and coal products.....	1,281.1	0.9	0.9	-	0.5	-	1.4	-	0.11	0.11
325	Chemicals.....	708.1	1.0	2.7	-	1.2	-	3.9	-	0.55	0.45
326	Plastics and rubber products.....	28.5	0.3	0.9	-	0.1	-	1.0	-	3.55	3.56
327	Nonmetallic mineral products.....	149.9	0.7	0.5	-	0.1	-	0.6	-	0.42	0.50
331	Primary metals.....	24.9	0.2	0.3	-	0.7	-	1.0	-	4.04	1.69
332	Fabricated metal products.....	122.3	0.8	4.9	-	0.5	-	5.4	-	4.40	4.55
333	Machinery.....	74.9	0.6	14.5	0.1	0.4	-	14.8	0.1	19.81	20.64
334	Computers and electronic products.....	58.6	0.5	3.5	-	0.2	-	3.7	-	6.33	4.97
335	Electrical equipment, appliances, and components.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
336	Transportation equipment.....	30.5	0.3	2.1	-	-	-	2.1	-	6.84	5.98
337	Furniture and related products.....	10.7	0.2	-	-	-	-	-	-	0.19	0.18
339	Miscellaneous products.....	31.0	0.4	0.1	-	-	-	-	-	0.30	0.31

- Represents less than one half the unit of measure. D Withheld to avoid disclosing data for individual companies.

1/Source: 1997 Economic Census, Manufacturing Sector, Industry Series.

2/Source: 1997 Foreign Trade Statistics (Census Bureau unpublished data).